

Appendix B

Meteorological Data

This section contains meteorological data derived from various regulatory and non-regulatory sites. The data provides a comparative analysis of winds speed, wind direction, wind gusts and concentration data. Please note that meteorological instruments measure at different heights, and at different time intervals. By taking, the actual time of measurement and assuring that all data represented is in Pacific Standard Time (PST) there is uniformity of the data. In addition, not all stations measure at the exact same time, i.e. measurements at 053 and 056 therefore, comparisons are measurements within a 60-minute period. While there may be some overlapping and slight differences the comparative analysis provides the reader with a better understanding of the regional effect of the Exceptional Event.

FIGURE B-1
METEOROLOGICAL AND AIR QUALITY SITES REFERENCED IN THIS DOCUMENT

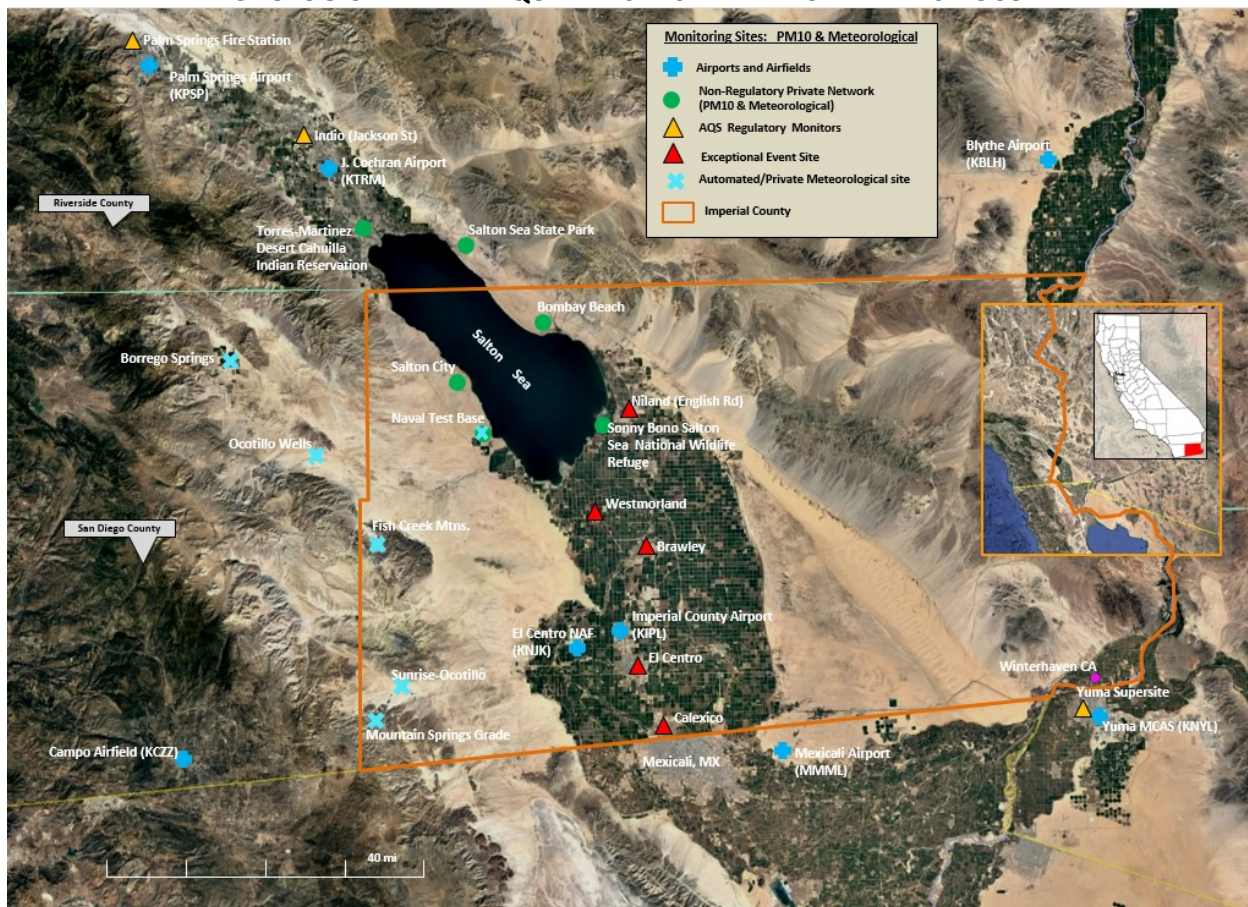
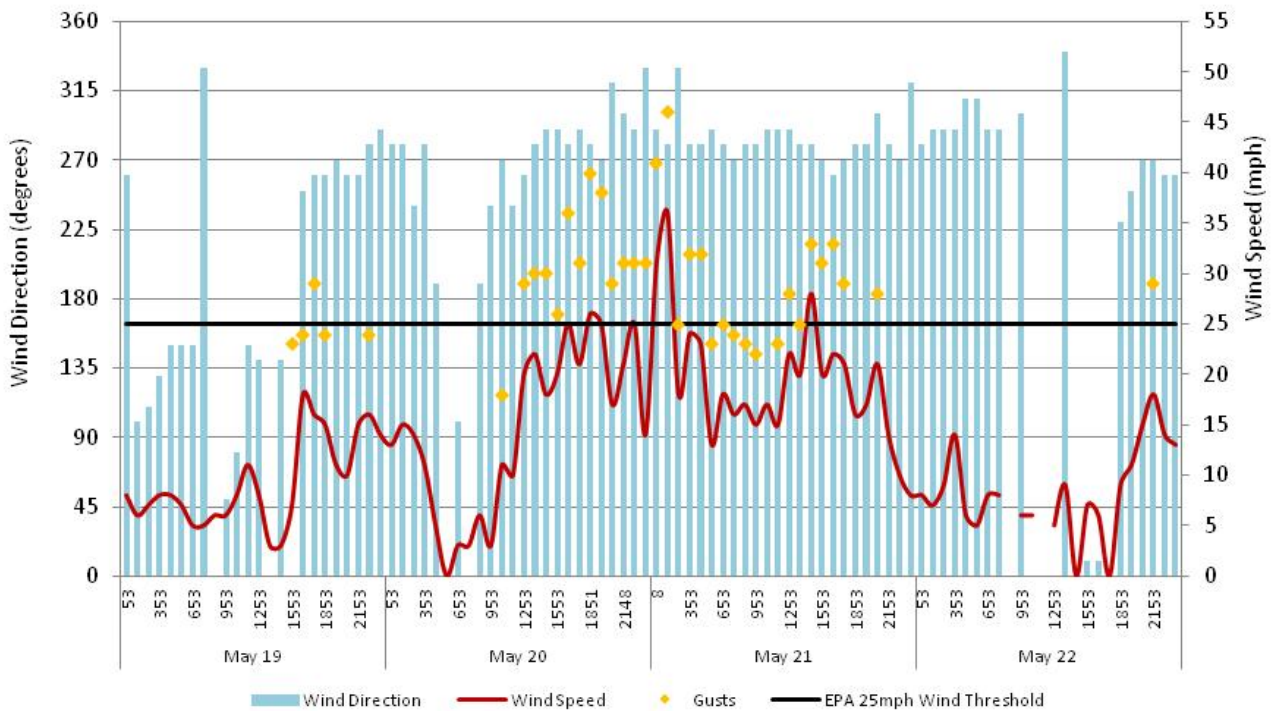


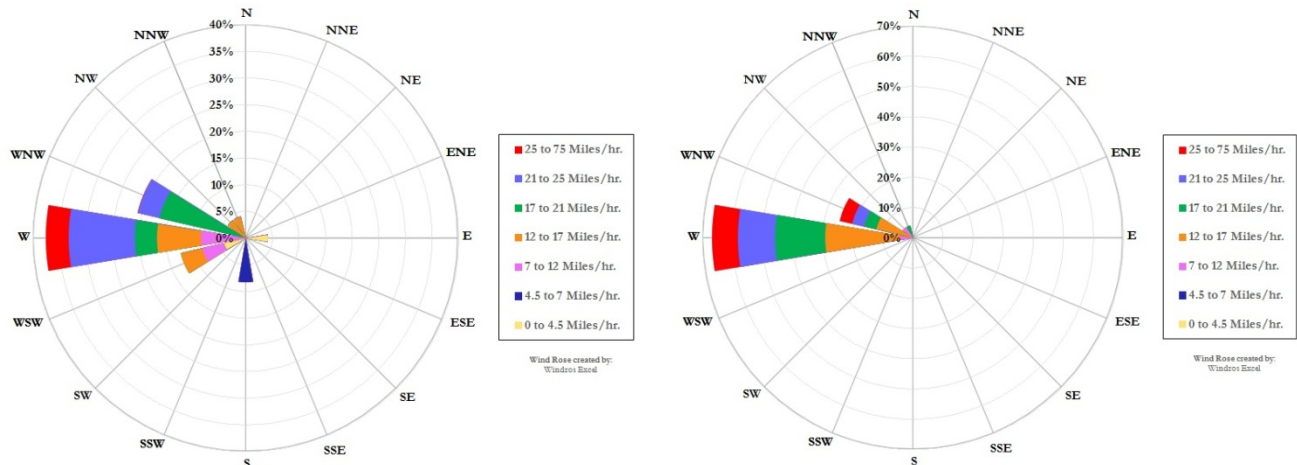
Fig. B-1: A collection of meteorological sites and air quality sites referenced in This document. Base map from Google Earth.

IMPERIAL COUNTY SITES FIGURES B-2 THROUGH B-9

FIGURE B-2
IMPERIAL COUNTRY AIRPORT (KIPL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

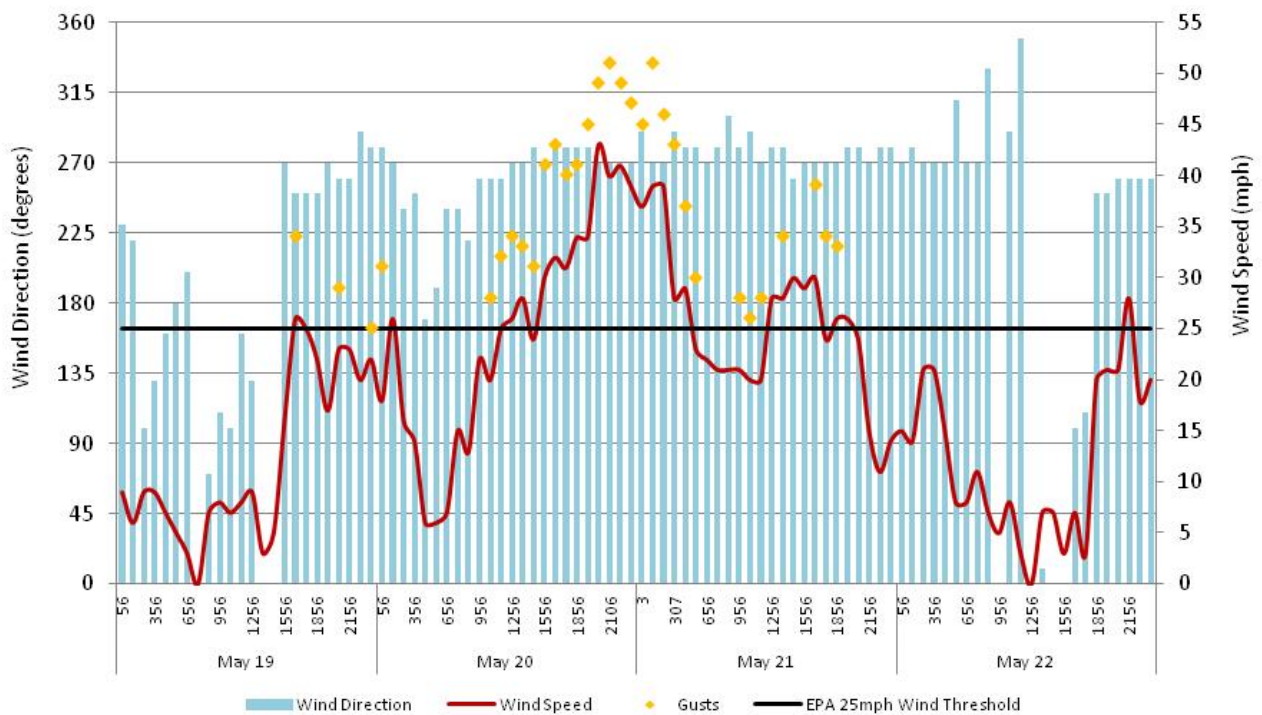


FIGURES B-3 & B-4
IMPERIAL COUNTRY AIRPORT (KIPL) WIND ROSE – MAY 20 AND MAY 21

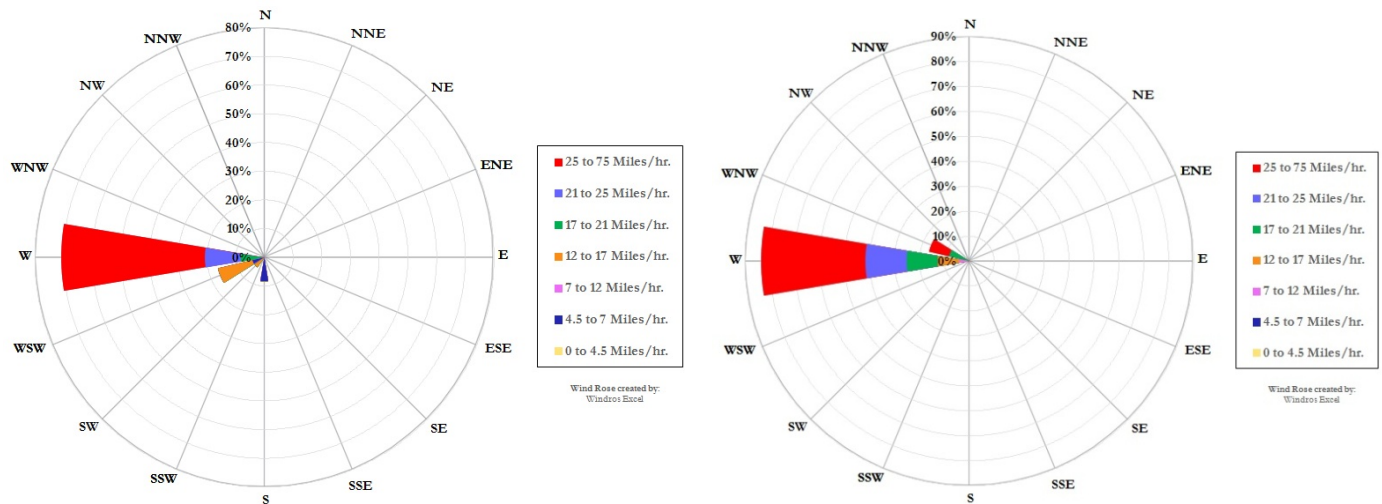


Figs. B-2 through B-4: Imperial Airport meteorological data for May 20 and May 21 shows that winds exceeded the 25 mph threshold on both days. May 20 wind rose (left). May 21 wind rose (right). Wind data from the NCEI's QCLCD system.

FIGURE B-5
EL CENTRO NAF (KNJK)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

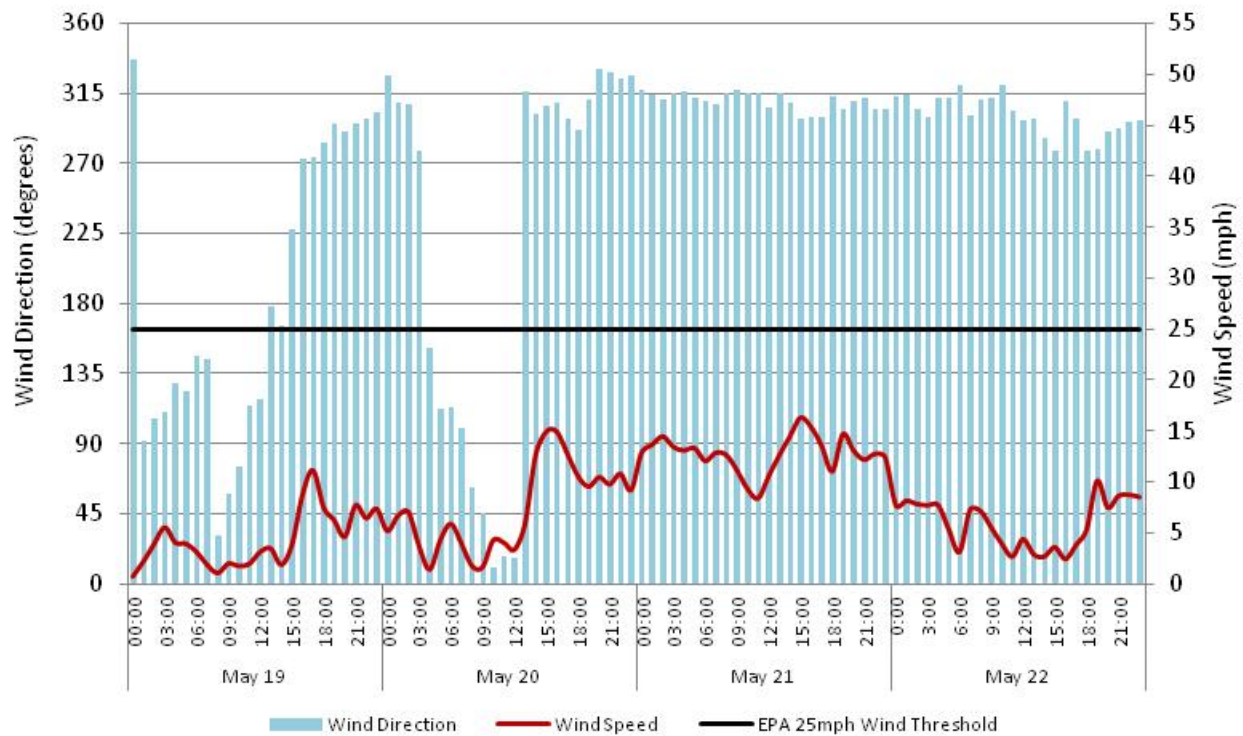


FIGURES B-6 & B-7
EL CENTRO NAF (KNJK) WIND ROSE – MAY 20 & MAY 21

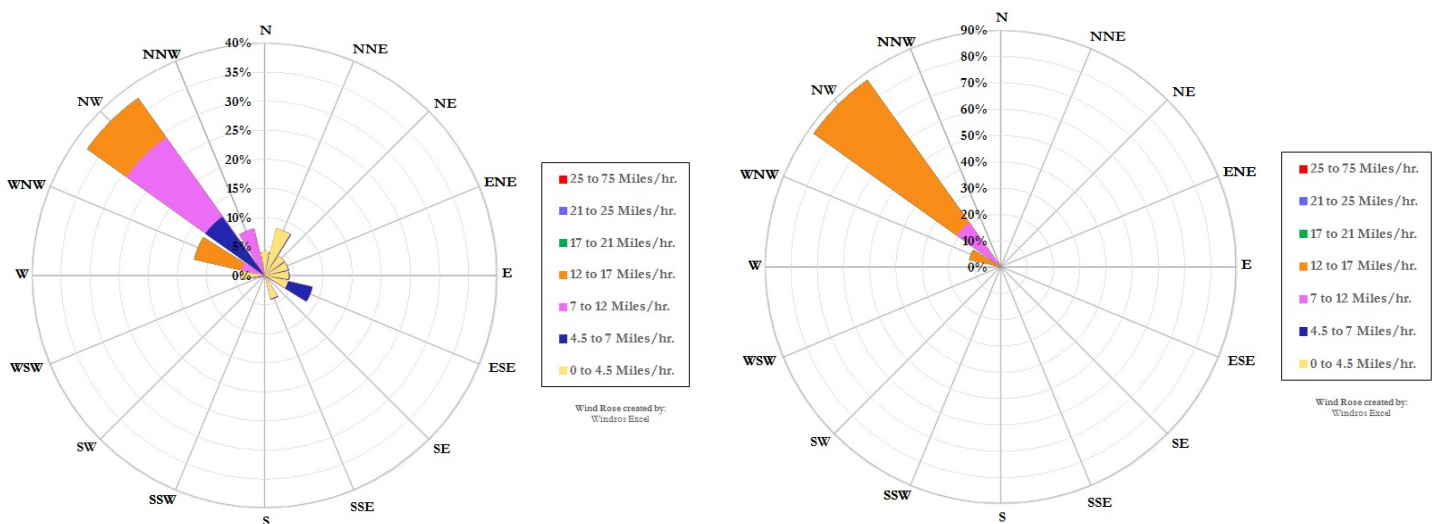


Figs. B-5 & B-7: El Centro NAF meteorological data for May 20 and May 21 shows that winds exceeded the 25 mph threshold on both days. May 20 wind rose (left). May 21 wind rose (right). Wind data from the NCEI's QCLCD system.

**FIGURE B-8
CALEXICO
WIND SPEED & DIRECTION**

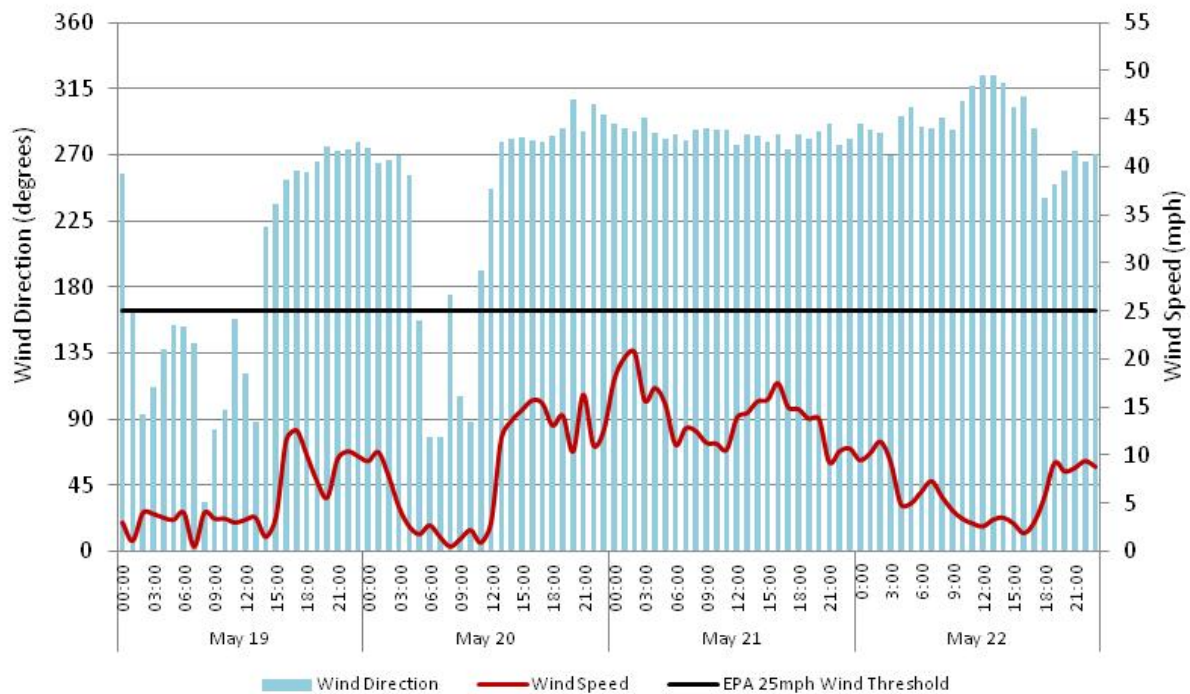


**FIGURES B-9 & B-10
CALEXICO WINDROSE – MAY 20 & MAY 21**

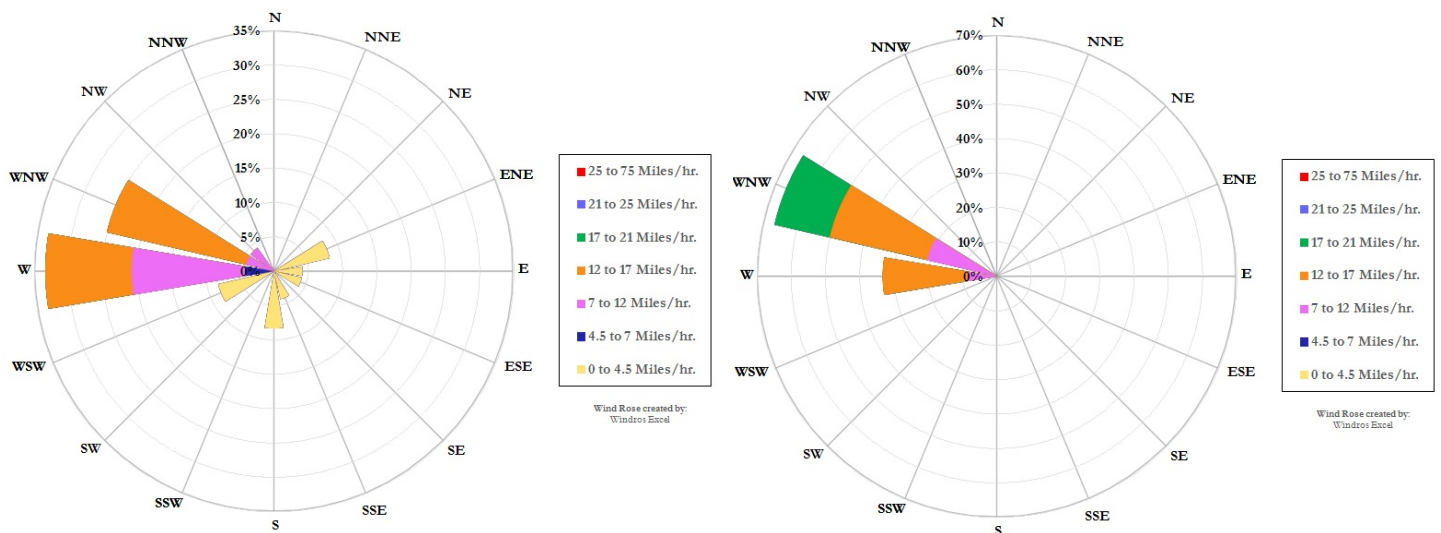


Figs. B-8 through B-10: Calexico meteorological data for May 20 and May 21. May 20 wind rose (left). May 21 wind rose (right). Wind data from the EPA's AQS data bank.

FIGURE B-11
EL CENTRO (9TH St)
WIND SPEED & DIRECTION

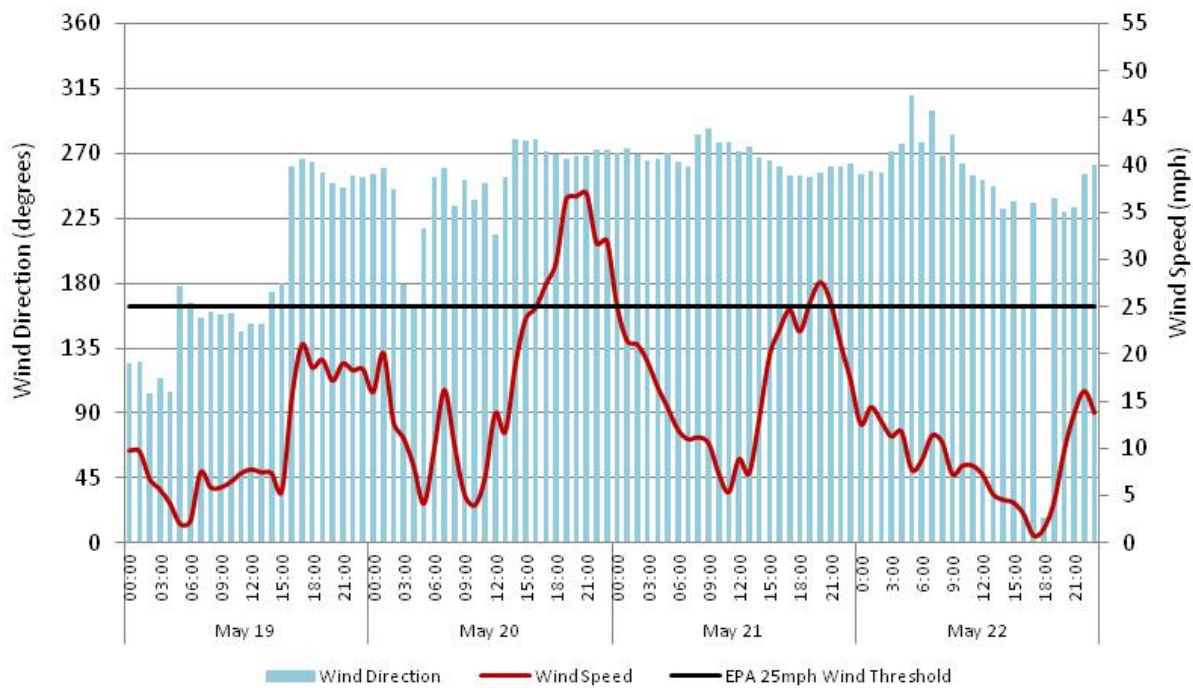


FIGURES B-12 & B-13
EL CENTRO (9TH ST) WIND ROSE – MAY 20 & MAY 21

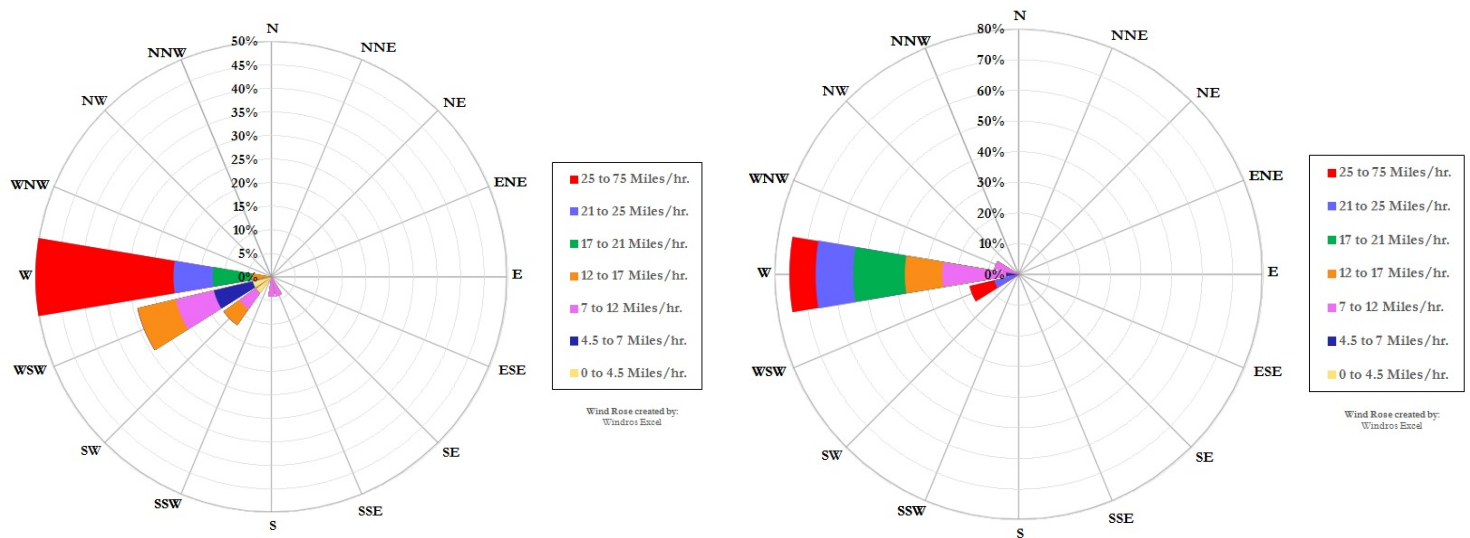


Figs. B-11 through B-13: El Centro station meteorological data for May 20 and May 21. May 20 wind rose (left). May 21 wind rose (right). Wind data from the EPA's AQS data bank.

FIGURE B-14
NILAND (ENGLISH RD)
WIND SPEED & DIRECTION

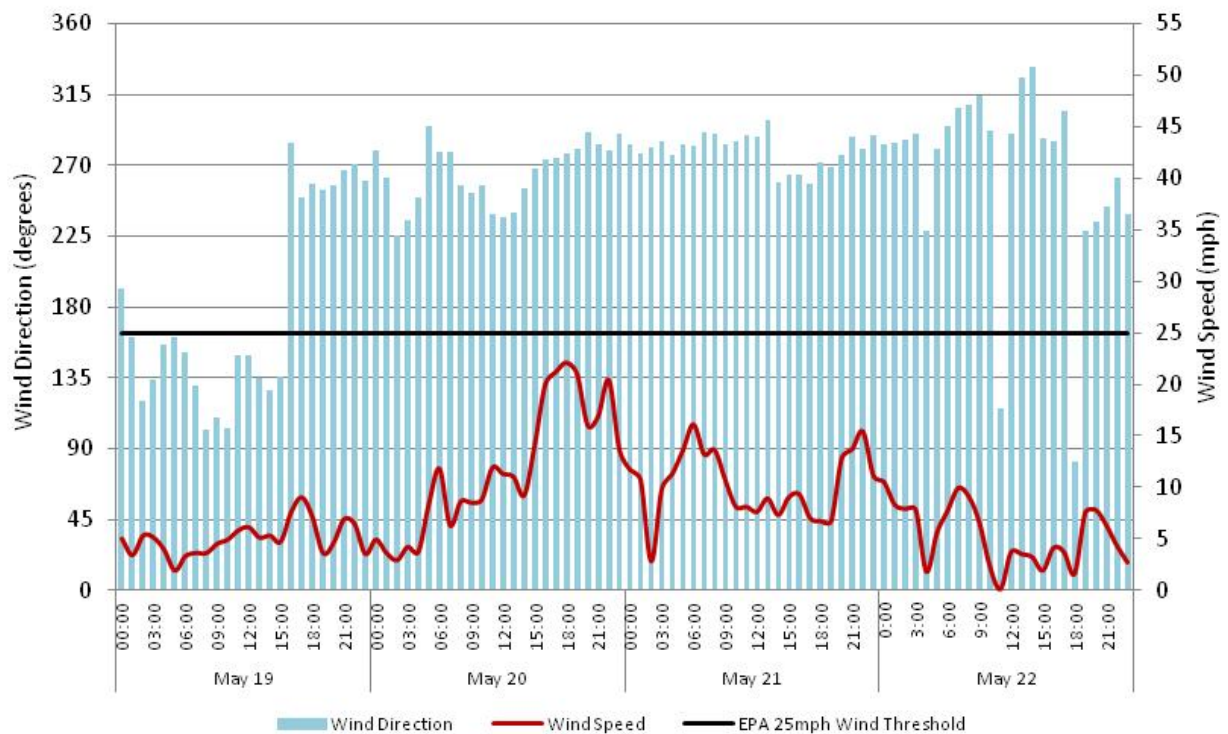


FIGURES B-15 & B-16
NILAND (ENGLISH RD) WINDROSE – MAY 20 & MAY 21

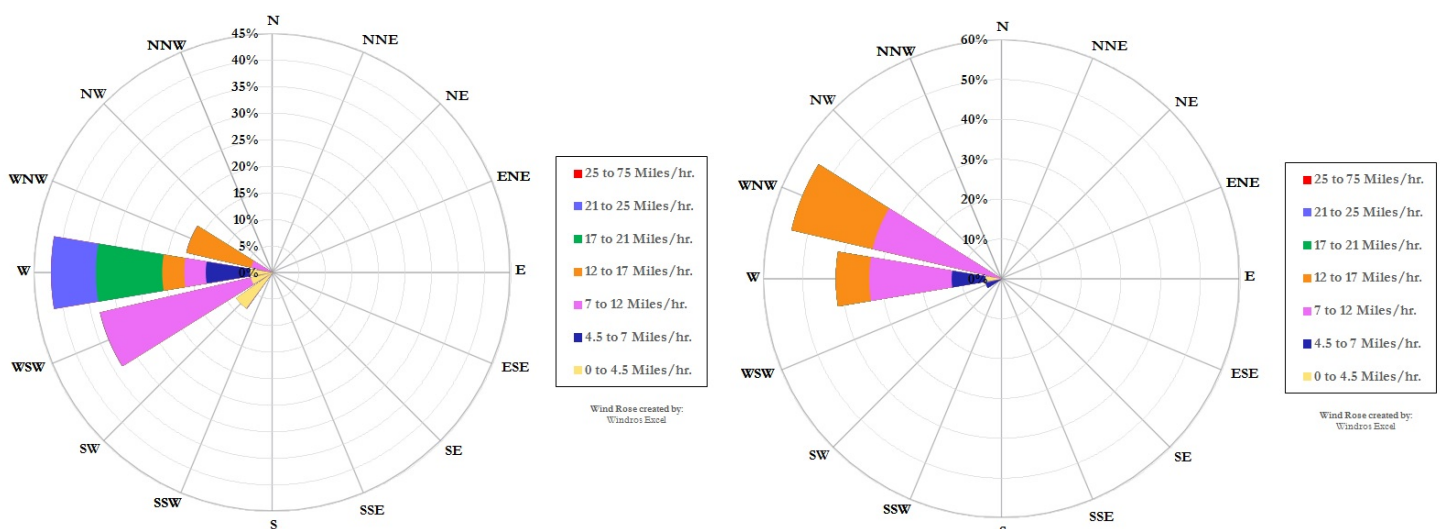


Figs. B-14 through B-16: Winds at Niland exceeded the 25mph threshold on both days. May 20 wind rose (left). May 21 wind rose (right). Wind data from the EPA's AQS data bank.

**FIGURE B-17
WESTMORLAND
WIND SPEED & DIRECTION**



**FIGURE B-18 & B-19
WESTMORLAND WINDROSE – APRIL 24 & APRIL 25**



Figs. B-17 through B-19: Westmorland station meteorological data for May 20 and May 21 shows that winds shifted more strongly WNW on May 21 (right wind rose). Wind data from the EPA's AQS data bank.

EASTERN RIVERSIDE COUNTY SITES

FIGURE B-20
BLYTHE AIRPORT (KBLH)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

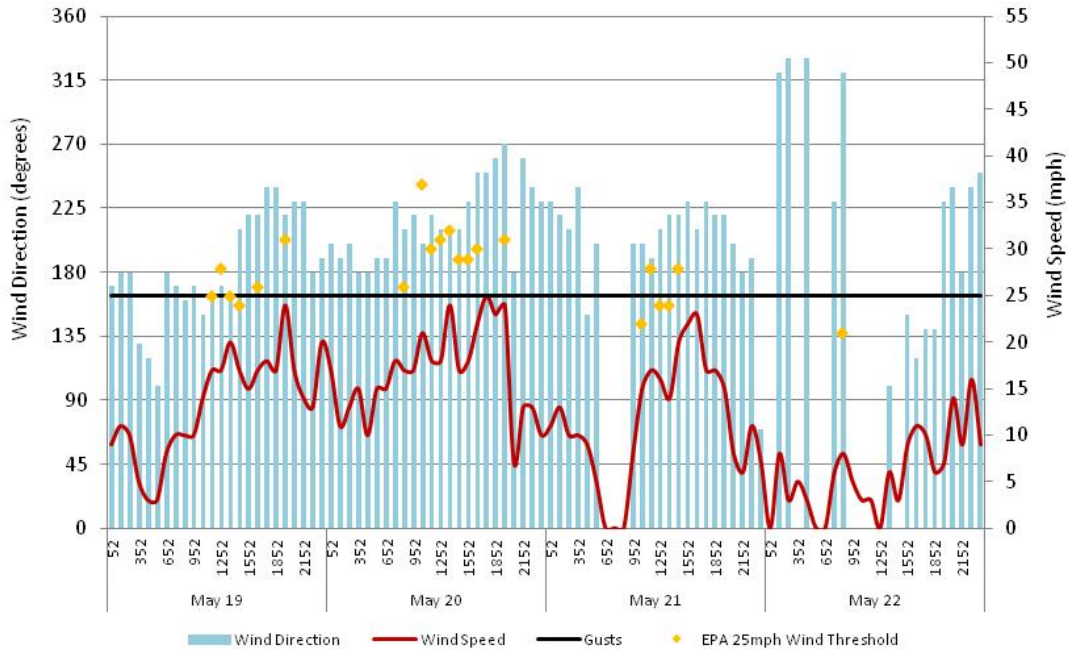


Fig. B-20: Wind data from the NCEI's QCLCD system.

FIGURE B-21
JACQUELINE COCHRAN REGIONAL AIRPORT (KTRM)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

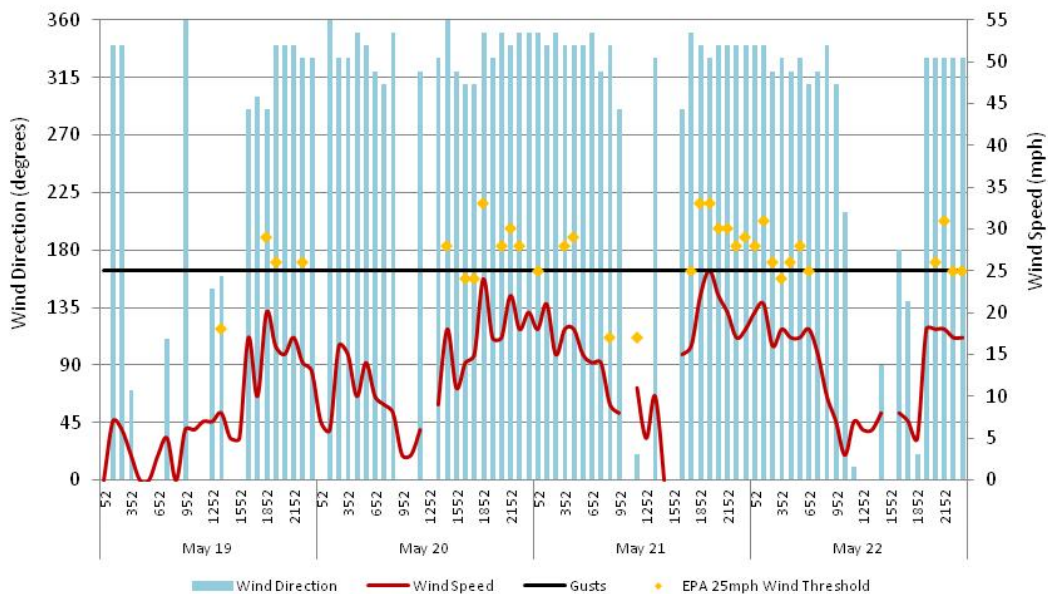


Fig. B-21: Wind data from the NCEI's QCLCD system.

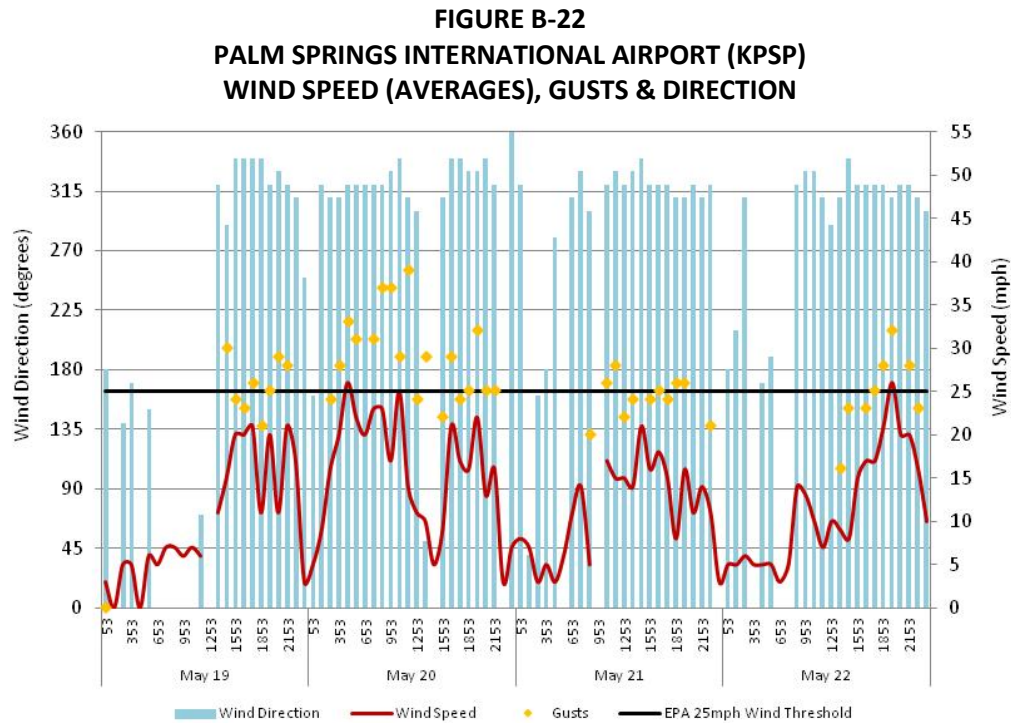


Fig. B-22: Wind data from the NCEI's QCLCD system.

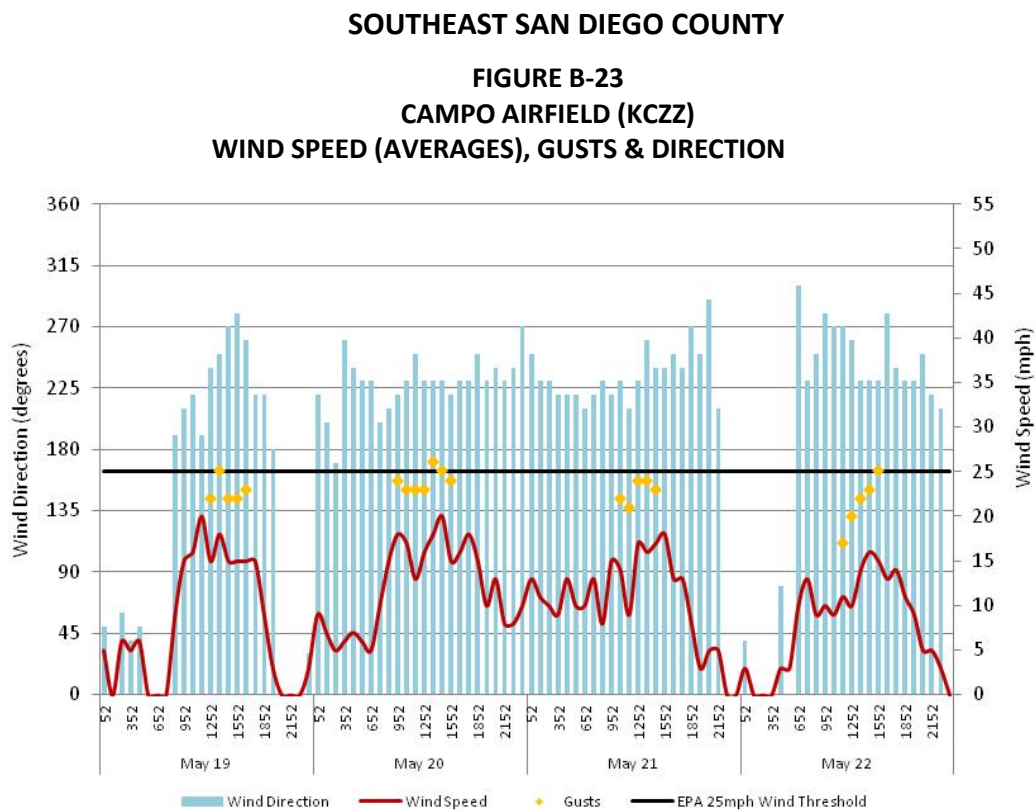


Fig. B-23: Wind data from the NCEI's QCLCD system.

SOUTHWESTERN ARIZONA

FIGURE B-24

YUMA MCAS (KNYL)

WIND SPEED (AVERAGES), GUSTS & DIRECTION

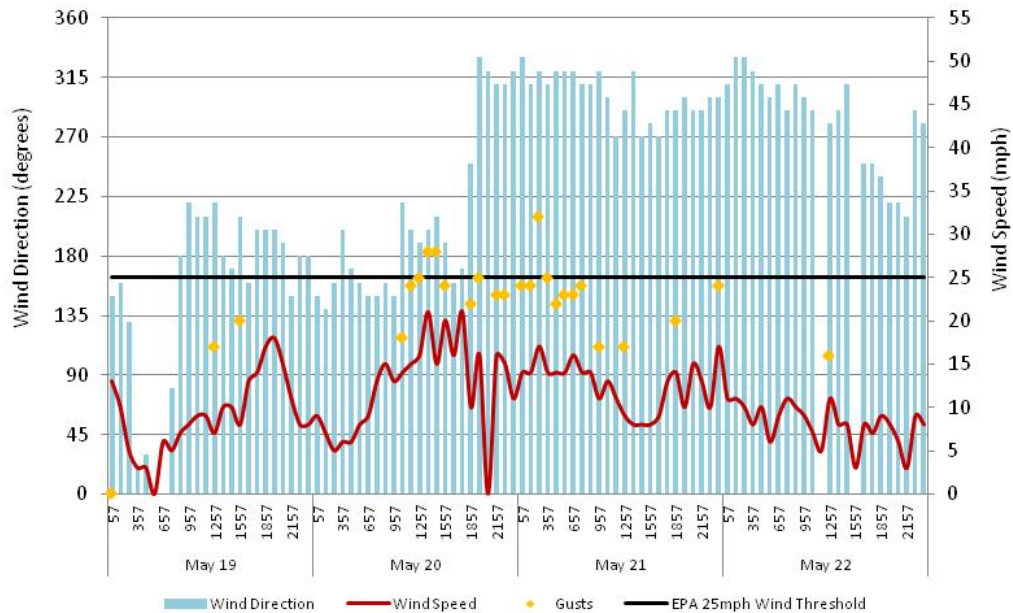


Fig. B-24: Wind data from the NCEI's QCLCD system.

MEXICO

FIGURE B-25

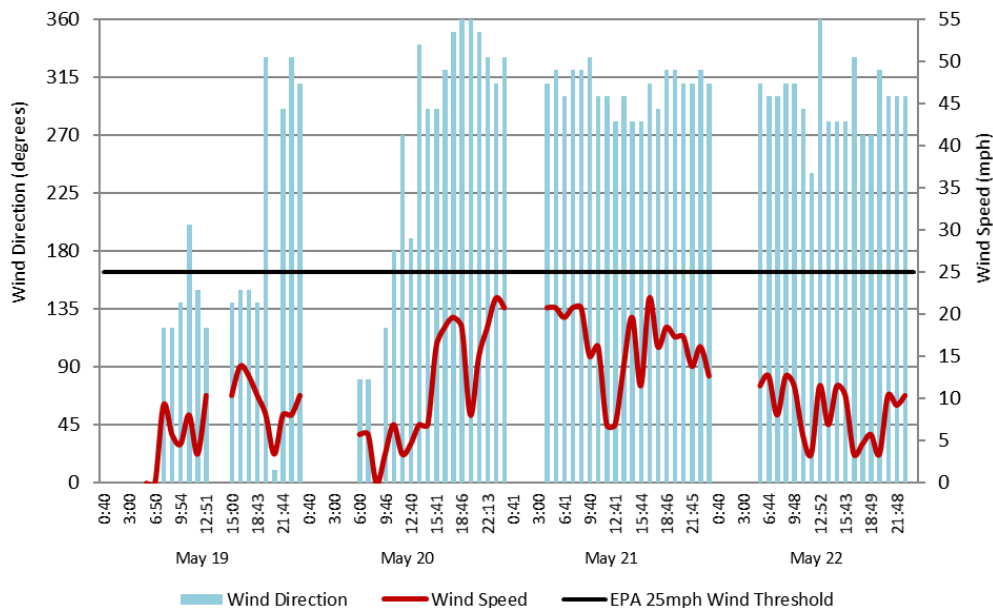
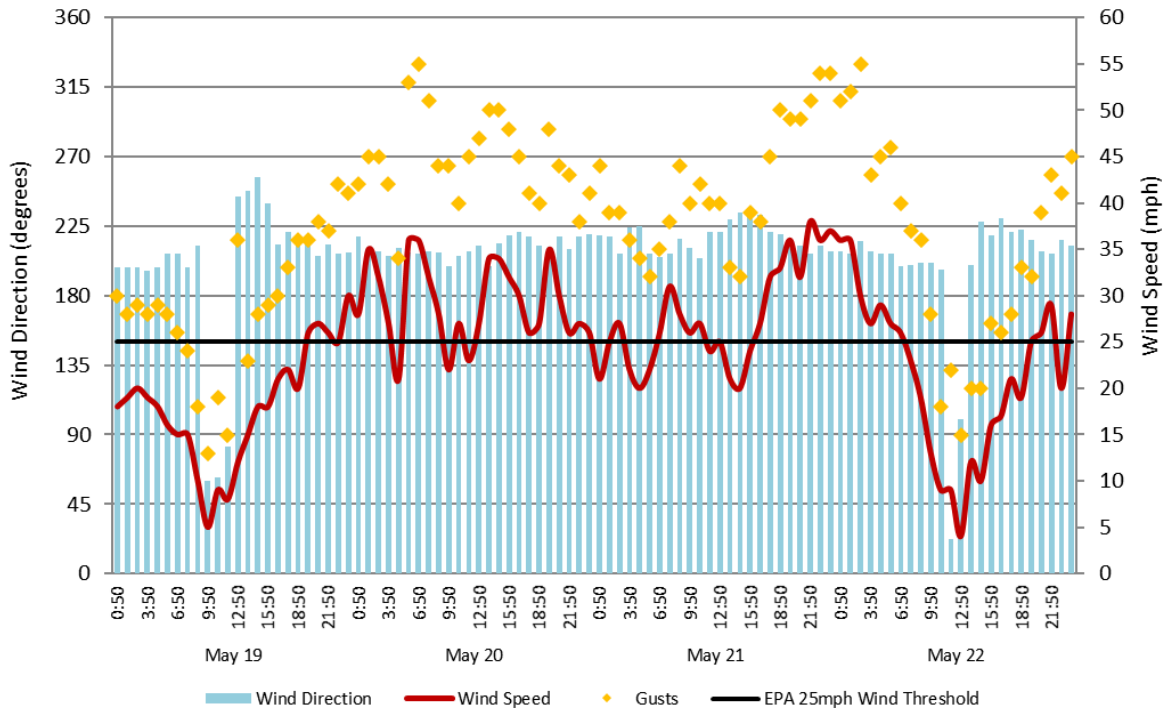
MEXICALI, MEXICO AIRPORT
WIND SPEED (AVERAGES) & DIRECTION

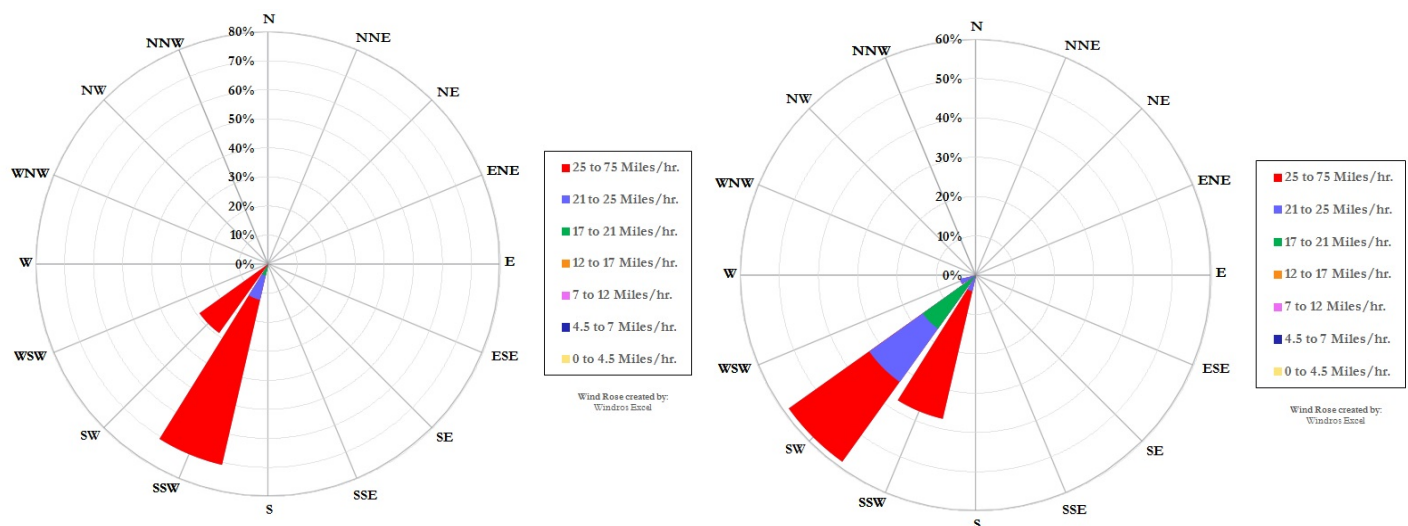
Fig. B-25: Wind data from the University of Utah's MesoWest.

UPSTREAM WIND SITES

FIGURE B-26
MOUNTAIN SPRINGS GRADE
WIND SPEED (AVERAGES), GUSTS & DIRECTION

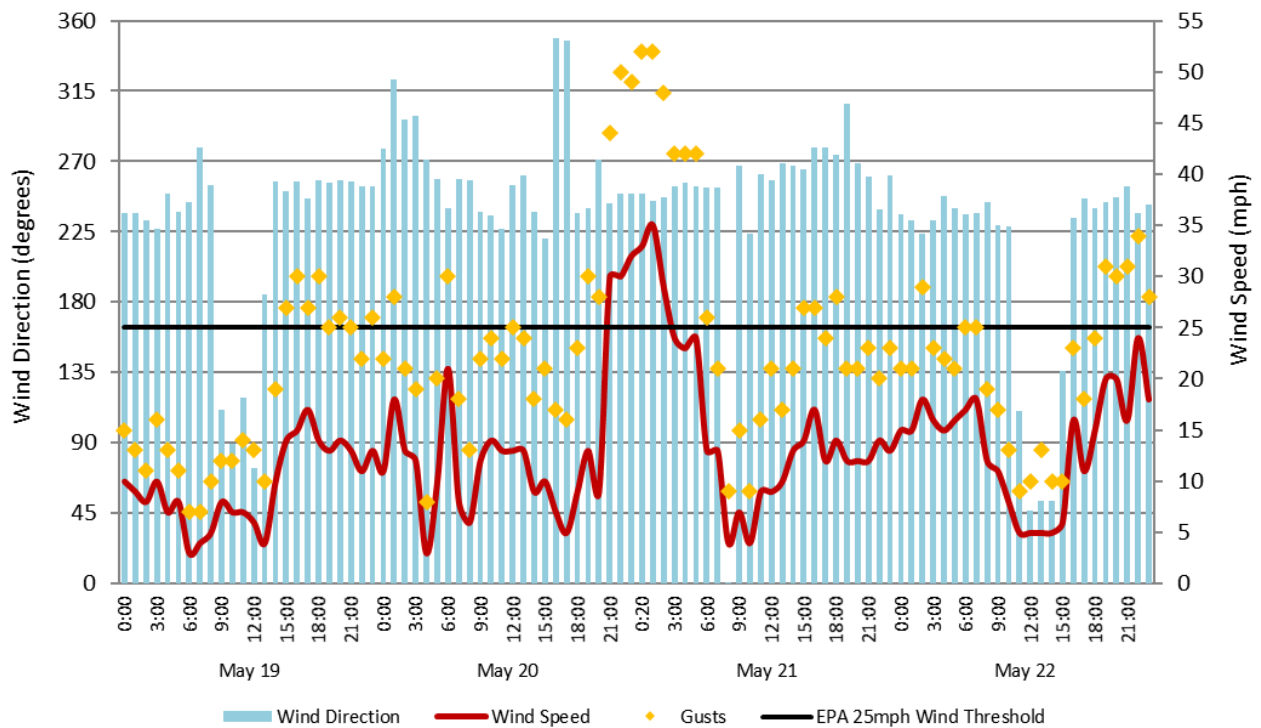


FIGURES B-27 & B-28
MOUNTAIN SPRINGS GRADE WIND ROSE – MAY 20 & MAY 21

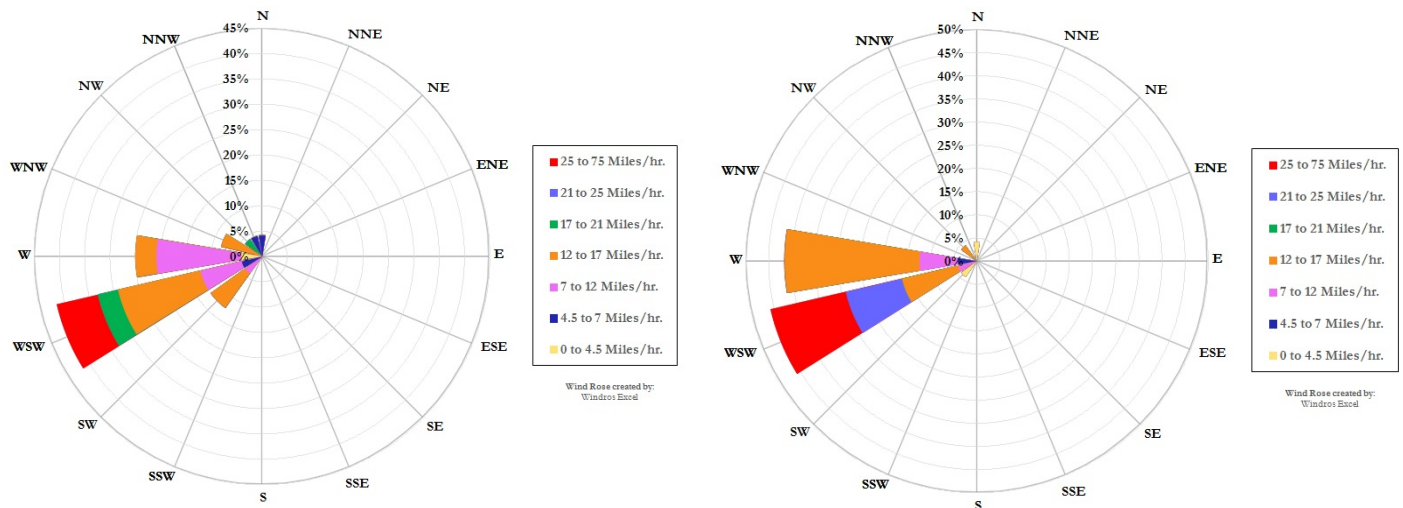


Figs. B-26 through B-28: Mountain Springs Grade is on the desert slope (elev. 2044 ft) of the Interstate 8 corridor as it descends to the desert floor. This canyon pass serves as a natural wind funnel to the valley below. May 20 wind rose (left), May 21 wind rose (right). University of Utah MesoWest, Station ID TNSC1.

FIGURE B-29
SUNRISE-OCOTILLO
WIND SPEED (AVERAGES), GUSTS & DIRECTION

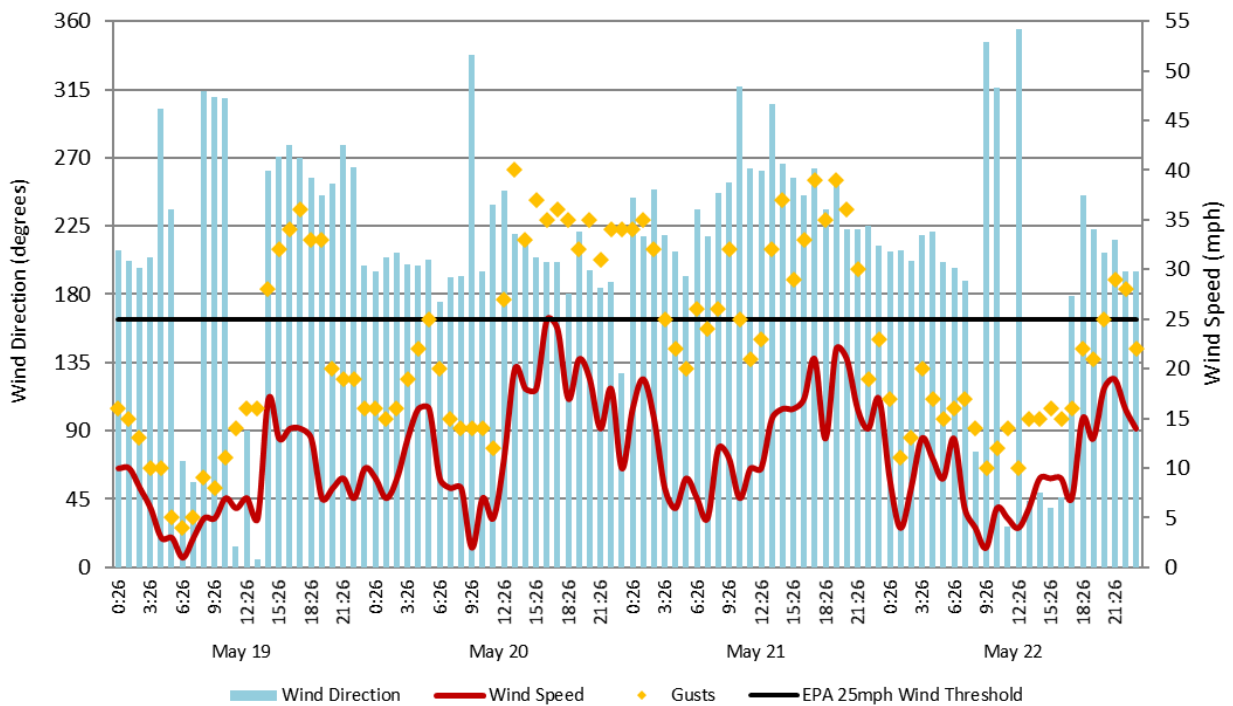


FIGURES B-30 & B-31
SUNRISE-OCOTILLO WIND ROSE – MAY 20 & MAY 21

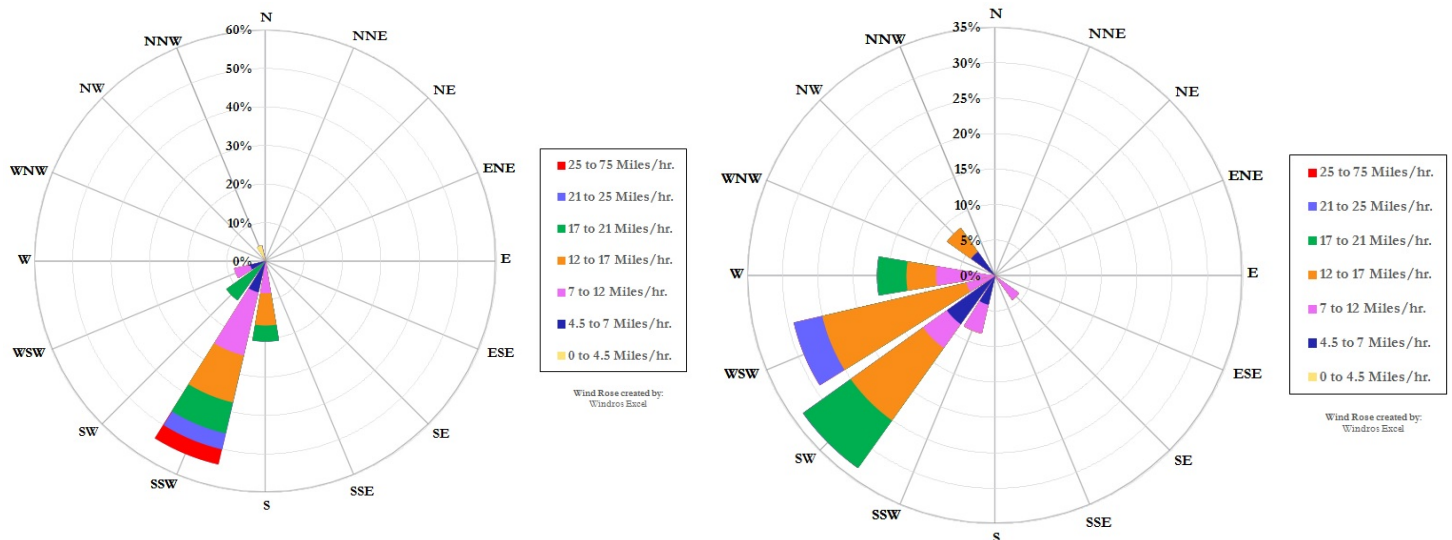


Figs. B-29 through B-31: Sunrise-Ocotillo is near the desert floor (elev. 695 ft). The site recorded gusts on both days of at least 50 mph (gusts are not included in the wind roses). Wind roses are for May 20 (left) and May 21 (right). University of Utah MesoWest, Station ID IMPSD.

FIGURE B-32
FISH CREEK MOUNTAINS
WIND SPEED (AVERAGES), GUSTS & DIRECTION

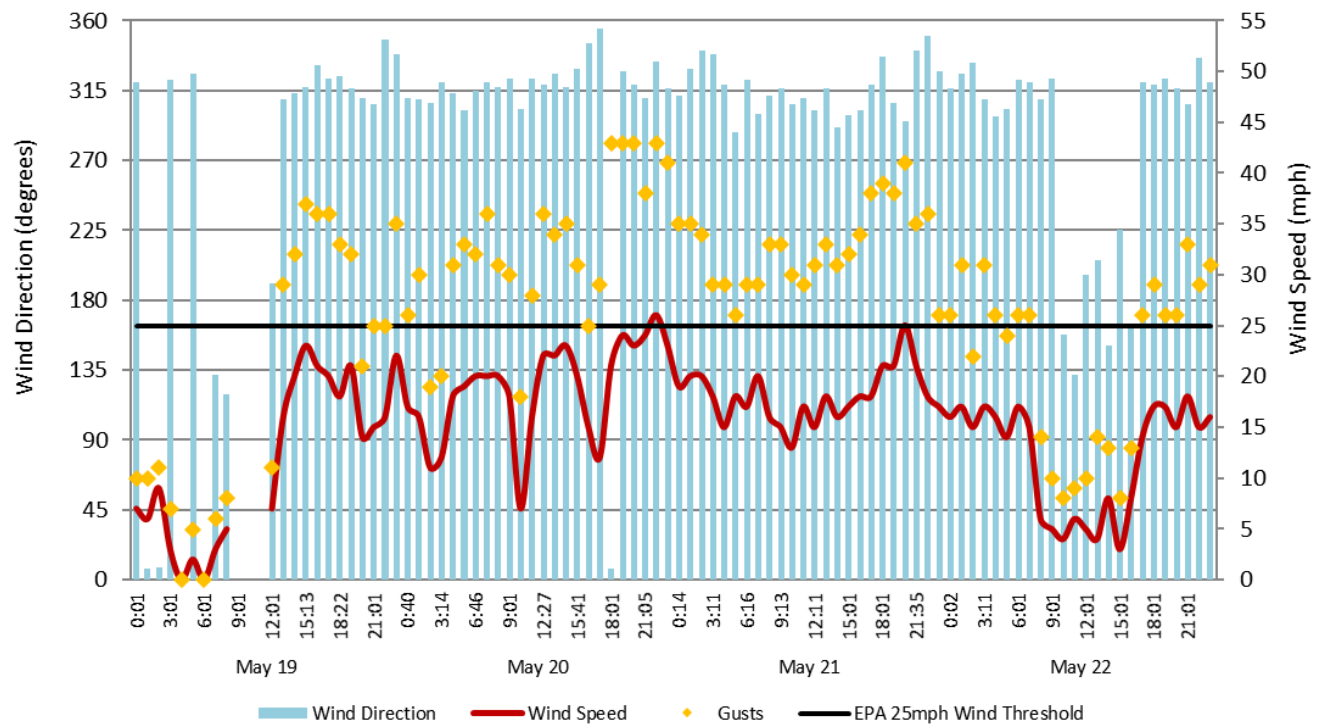


FIGURES B-33 & B-34
FISH CREEK MOUNTAINS WIND ROSE – MAY 20 & MAY 21

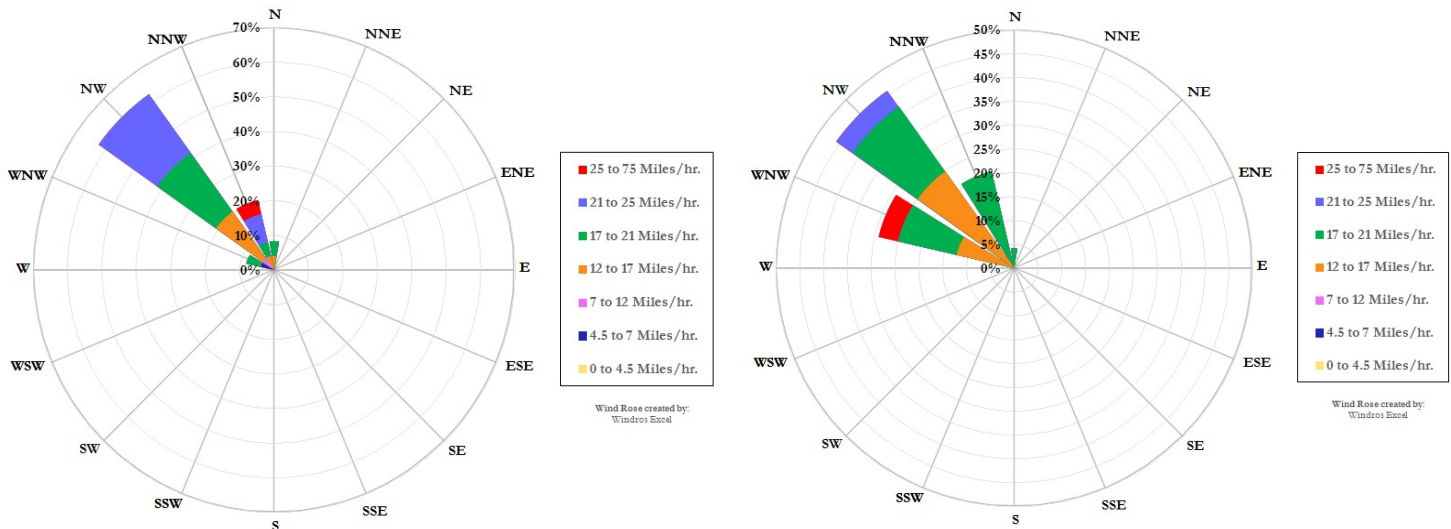


Figs. B-32 through B-34: The Fish Creek Mountains station is 781 feet above the desert floor. Winds reached 25 mph on May 20 (left wind rose) but were slightly less on May 21 (right wind rose). University of Utah MesoWest, Station ID FHCC1.

FIGURE B-35
OCOTILLO WELLS
WIND SPEED (AVERAGES), GUSTS & DIRECTION



FIGURES B-36 & B-37
OCOTILLO WELLS WIND ROSE – MAY 20 & MAY 21

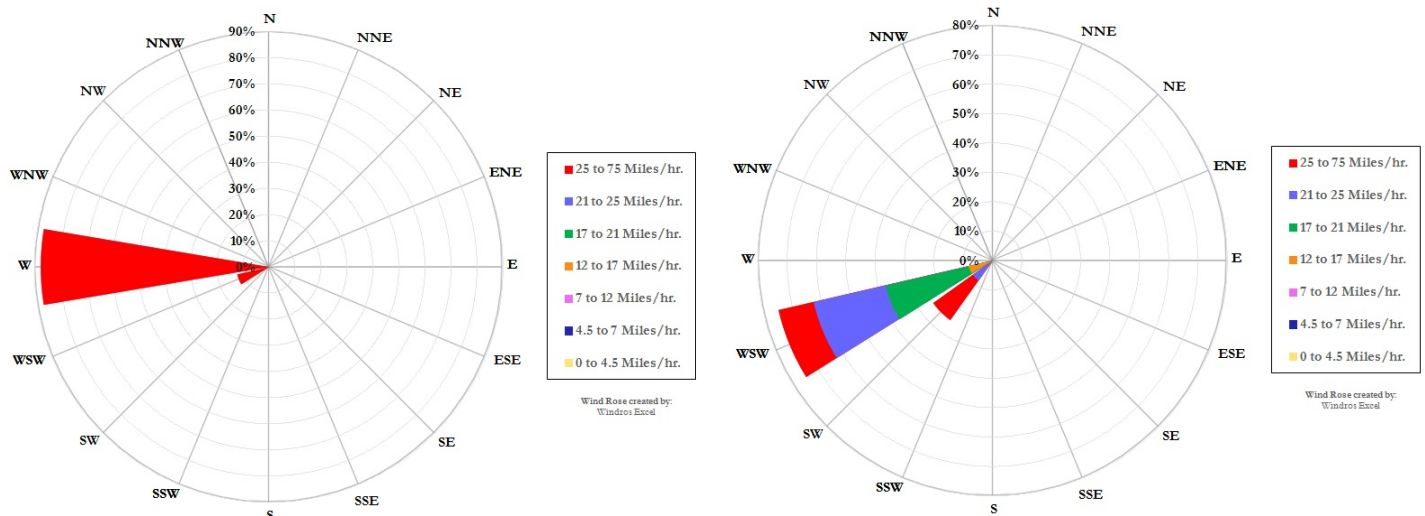


Figs. B-32 through B-37: The winds at Ocotillo Wells reached the 25 mph threshold on both days, while gusts (not included in the wind rose) reached over 40 mph. May 20 wind rose left. May 21 wind rose right. Data from the University of Utah MesoWest, Station ID AS938.

FIGURE B-38
NAVAL TEST BASE
WIND SPEED (AVERAGES) & DIRECTION

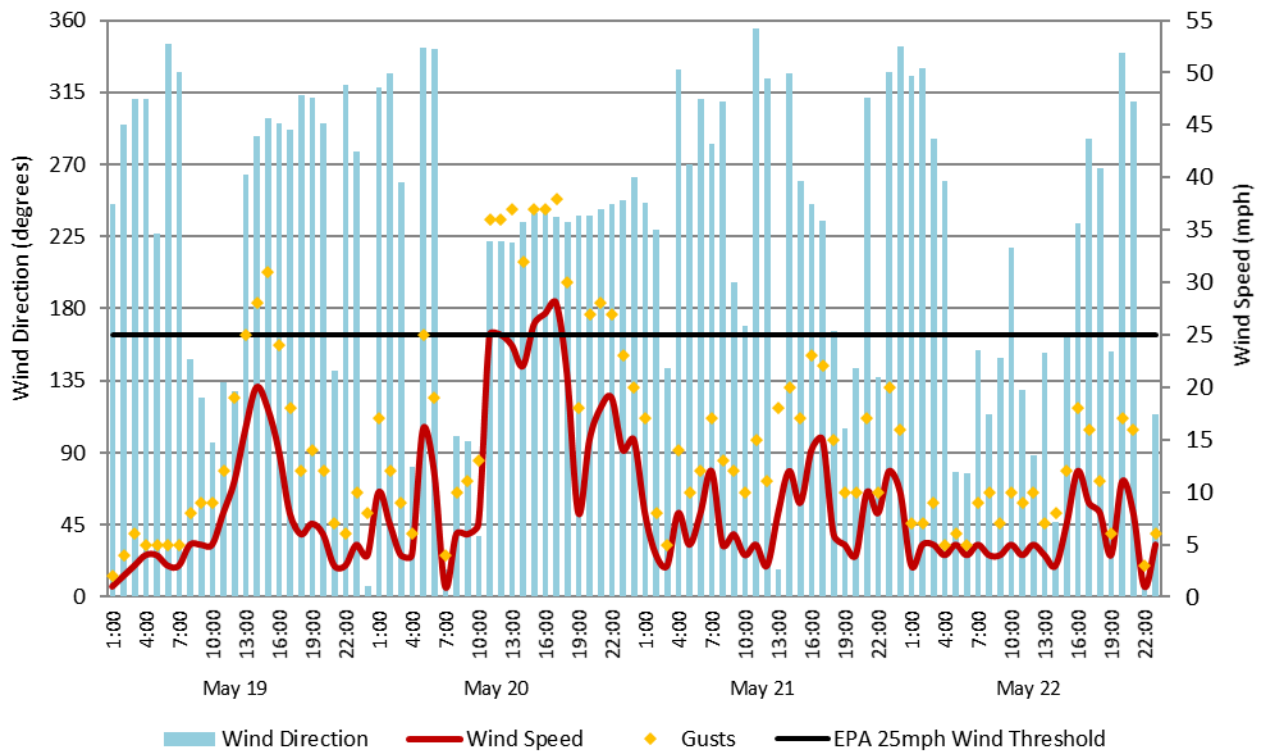


FIGURES B-39 & B-40
NAVAL TEST BASE WIND ROSE – MAY 20 & MAY 21

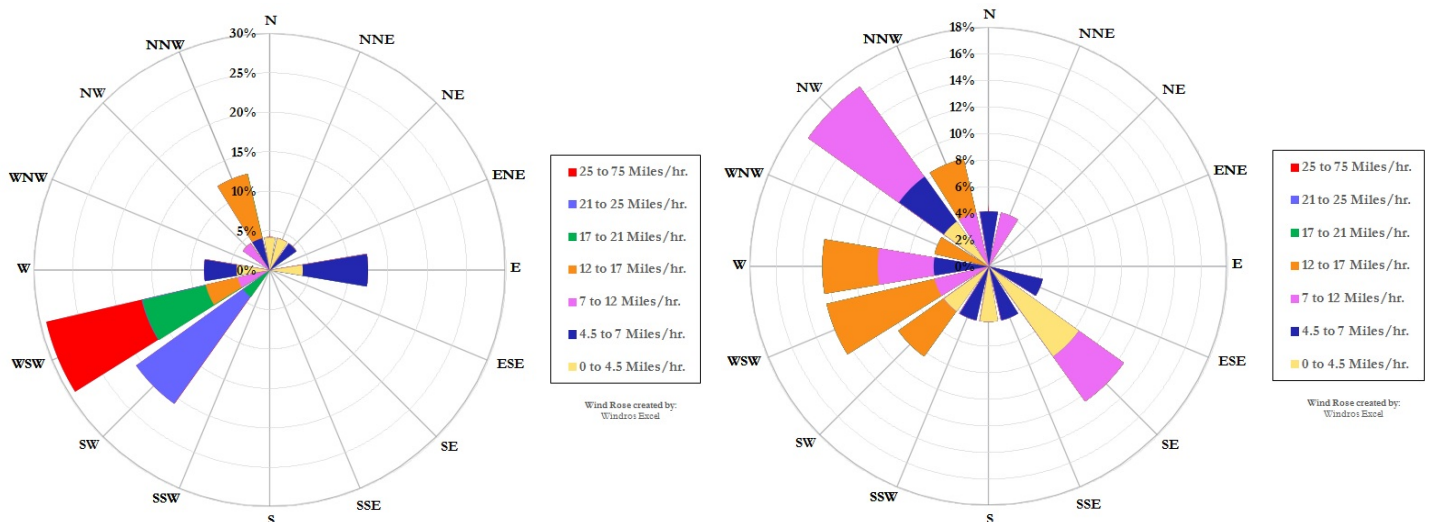


Figs. B-38 through B-40: Data is missing for a chunk of the day on May 20. However, winds exceeded 25 mph on both days. Data from AQMIS2.

FIGURE B-41
BORREGO SPRINGS (BRGSD)
WIND SPEED (AVERAGES), GUSTS & DIRECTION



FIGURES B-42 & B-43
BORREGO SPRINGS WIND ROSE – MAY 20 & MAY 21



Figs. B-41 through B-43: Winds at Borrego Springs reached 25 mph on May 20, but were slightly less on May 21. May 20 wind rose left. May 21 wind rose right. Data from AQMIS2.

FIGURE B-44 IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – MAY 20

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W Station: IMPERIAL CO AIRPORT, CA US WBAN:03144						Local Climatological Data Hourly Observations May 2016 Generated on 06/07/2017										National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801						
Date	Time (LST)	Station Type	Sky Conditions	Visi- bility	Weather Type (see documentation) AU AW MW	Dry Bulb Temp (F) (C)	Wet Bulb Temp (F) (C)	Dew Point Temp (F) (C)	Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend.	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Alti-meter Setting (inHg)			
20	0053	7	CLR-00	10.00		76	24.4	68	20.2	35	1.7	23	13	280		29.73	6	-0.00	29.67	FM-15	0.00	29.67
20	0153	7	CLR-00	10.00		77	25.0	69	20.7	36	2.2	23	15	280		29.73			29.67	FM-15	0.00	29.67
20	0253	7	CLR-00	10.00		75	23.9	67	19.2	37	2.8	25	14	240		29.72			29.66	FM-15	0.00	29.66
20	0353	7	CLR-00	10.00		72	22.2	63	17.0	40	4.4	31	11	280		29.71	8	+0.01	29.66	FM-15	0.00	29.65
20	0453	7	CLR-00	10.00		70	21.1	61	16.0	39	3.9	32	5	190		29.72			29.66	FM-15	0.00	29.66
20	0553	7	CLR-00	10.00		74	23.3	65	18.3	39	3.9	28	0	000		29.74			29.68	FM-15	0.00	29.68
20	0653	7	CLR-00	10.00		77	25.0	68	19.8	42	5.6	29	3	100		29.77	3	-0.05	29.71	FM-15	0.00	29.71
20	0753	7	CLR-00	10.00		79	26.1	71	21.9	37	2.8	22	3	VRB		29.78			29.72	FM-15	0.00	29.72
20	0853	7	CLR-00	10.00		83	28.3	75	24.1	40	4.4	22	6	190		29.78			29.72	FM-15	0.00	29.72
20	0953	7	CLR-00	10.00		86	30.0	79	25.9	42	5.6	21	3	240		29.77	0	-0.00	29.71	FM-15	0.00	29.71
20	1053	7	CLR-00	10.00		91	32.8	86	30.2	41	5.0	17	11	270	18	29.75			29.69	FM-15	0.00	29.69
20	1153	7	CLR-00	10.00		92	33.3	90	32.5	37	2.8	14	10	240		29.74			29.68	FM-15	0.00	29.68
20	1249	7	CLR-00	10.00		93	34.0	91	32.6	39	4.0	15	18	260	24	29.72			29.67	FM-16		29.67
20	1253	7	CLR-00	10.00		93	33.9	91	32.6	39	3.9	15	20	260	29	29.72	6	+0.03	29.66	FM-15	0.00	29.66
20	1353	7	CLR-00	10.00		93	33.9	91	32.6	39	3.9	15	22	280	30	29.70			29.64	FM-15	0.00	29.64
20	1453	7	CLR-00	10.00		92	33.3	88	31.4	40	4.4	16	18	290	30	29.69			29.63	FM-15	0.00	29.63
20	1553	7	CLR-00	10.00		90	32.2	86	30.0	39	3.9	17	20	290	26	29.69	5	+0.03	29.63	FM-15	0.00	29.63
20	1653	7	FEW-02 12	4.00	HZ-7 IFU-05 IJZ-05	86	30.0	82	27.8	35	1.7	16	25	280	36	29.68			29.62	FM-15	0.00	29.62
20	1753	7	CLR-00	5.00	HZ-7 IFU-05 IJZ-05	83	28.3	76	24.6	38	3.3	20	21	290	31	29.69			29.63	FM-15	0.00	29.63
20	1836	7	SCT-04 6	3.00	HZ-7 IFU-05 IJZ-05	78	25.6	69	20.5	41	5.0	27	24	290	34	29.71			29.65	FM-16		29.65
20	1838	7	BKN-07 6	2.50	HZ-7 IFU-05 IJZ-05	78	25.6	69	20.5	41	5.0	27	25	280	34	29.71			29.65	FM-16		29.65
20	1851	6	BKN-07 5	2.50	HZ-7 IFU-05 IJZ-05	77	25.0	67	19.7	43	6.0	30	26	280	40	29.71			29.65	FM-16		29.65
20	1853	7	BKN-07 5	3.00	HZ-7 IFU-05 IJZ-05	77	25.0	68	19.8	42	5.6	29	25	280	40	29.71	3	-0.02	29.65	FM-15	0.00	29.65
20	1905	7	SCT-04 6	4.00	HZ-7 IFU-05 IJZ-05	76	24.4	66	19.1	43	6.1	31	25	270	38	29.72			29.66	FM-16		29.66
20	1925	7	BKN-07 5	3.00	HZ-7 IFU-05 IJZ-05	74	23.3	64	17.8	45	7.2	36	24	280	38	29.73			29.67	FM-16		29.67
20	1936	7	BKN-07 5	2.50	HZ-7 IFU-05 IJZ-05	73	22.8	63	17.3	45	7.2	37	22	290	36	29.75			29.68	FM-16		29.68
20	1951	7	FEW-02 5 OVC-08 10	4.00	HZ-7 IFU-05 IJZ-05	73	23.0	63	17.3	45	7.0	36	14	320	28	29.78			29.72	FM-16		29.72
20	1953	7	FEW-02 5 OVC-08 10	3.00	HZ-7 IFU-05 IJZ-05	73	22.8	63	17.4	44	6.7	35	10	320	23	29.78			29.71	FM-15	0.00	29.72
20	2001	7	FEW-02 5 OVC-08 12	1.75	HZ-7 IFU-05 IJZ-05	72	22.2	62	16.9	43	6.1	35	11	320	22	29.78			29.72	FM-16		29.72
20	2011	7	FEW-02 7 OVC-08 12	1.25	HZ-7 IFU-05 IJZ-05	72	22.2	62	16.8	44	6.7	37	16	310	24	29.78			29.72	FM-16		29.72
20	2036	7	VV-09 9	0.75	HZ-7 IFU-05 IJZ-05	71	21.7	61	16.3	44	6.7	38	15	320	25	29.79			29.73	FM-16		29.73
20	2053	7	VV-09 8	0.75	HZ-7 IFU-05 IJZ-05	70	21.1	61	15.8	44	6.7	39	17	320	29	29.80			29.74	FM-15	0.00	29.74
20	2139	7	VV-09 8	1.00	HZ-7 IFU-05 IJZ-05	68	20.0	59	14.9	45	7.2	44	18	310	28	29.82			29.76	FM-16		29.76
20	2148	7	VV-09 8	0.75	HZ-7 IFU-05 IJZ-05	68	20.0	59	14.9	45	7.0	43	21	300	31	29.82			29.76	FM-16		29.76
20	2153	7	VV-09 7	0.75	HZ-7 IFU-05 IJZ-05	68	20.0	59	14.9	45	7.2	44	17	310	30	29.83	1	-0.05	29.77	FM-15	0.00	29.77
20	2219	7	VV-09 7	1.00	HZ-7 IFU-05 IJZ-05	68	20.0	59	14.9	44	6.7	42	25	290	31	29.83			29.77	FM-16		29.77
20	2230	7	VV-09 7	0.75	HZ-7 IFU-05 IJZ-05	68	20.0	59	14.9	44	6.7	42	24	290	32	29.84			29.78	FM-16		29.78
20	2251	6	VV-09 8	1.00	HZ-7 IFU-05 IJZ-05	66	19.0	57	14.0	45	7.0	46	14	310	32	29.85			29.79	FM-16		29.79
20	2253	7	VV-09 8	1.00	HZ-7 IFU-05 IJZ-05	67	19.4	58	14.4	44	6.7	44	17	300	26	29.85			29.79	FM-15	0.00	29.79
20	2345	7	OVC-08 8	1.75	HZ-7 IFU-05 IJZ-05	66	18.9	57	13.9	43	6.1	43	14	330	31	29.86			29.80	FM-16		29.80
20	2353	7	OVC-08 8	1.75	HZ-7 IFU-05 IJZ-05	65	18.3	56	13.5	43	6.1	45	15	300	25	29.86			29.80	FM-15	0.00	29.80

FIGURE B-45 IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – may 21

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -58 ft. Lat: 32.8342° N Lon: -115.5786° W Station: IMPERIAL CO AIRPORT, CA US WBAN:03144					Local Climatological Data Hourly Observations May 2016 Generated on 06/07/2017												National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801					
Date	Time (LST)	Station Type	Sky Conditions	Visi- bility	Weather Type (see documentation) AU AW MW	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend.	Net 3-Hr Change (inHg)	Sea level Press. (inHg)	Report Type	Precip Total (in)	Alti-meter Setting (inHg)
21	0008	7	VV-09 8	1.00	HZ-7 IFU-05 IJZ-05	65	18.3	56	13.5	43	6.1	45	31	290	41	29.83				FM-16		29.77
21	0034	7	OVC-08 10	1.50	HZ-7 IFU-05 IJZ-05	64	17.8	55	13.0	42	5.6	45	28	290	38	29.85				FM-16		29.79
21	0051	6	OVC-08 10	2.00	HZ-7 IFU-05 IJZ-05	64	18.0	55	13.1	43	6.0	46	25	290	36	29.84				FM-16		29.78
21	0053	7	OVC-08 10	2.00	HZ-7 IFU-05 IJZ-05	64	17.8	55	13.0	42	5.6	45	28	280	36	29.85	0	-0.02	29.79	FM-15	0.00	29.79
21	0100	7	OVC-08 8	1.75	HZ-7 IFU-05 IJZ-05	64	17.8	55	13.0	42	5.6	45	28	290	38	29.84				FM-16		29.78
21	0126	7	BKN-07 7	2.50	HZ-7 IFU-05 IJZ-05	64	17.8	55	12.9	41	5.0	43	31	280	43	29.83				FM-16		29.77
21	0140	7	BKN-07 6	3.00	HZ-7 IFU-05 IJZ-05	64	17.8	55	13.0	41	5.0	43	36	280	46	29.84				FM-16		29.78
21	0148	7	SCT-04 6	4.00	HZ-7 IFU-05 IJZ-05	64	18.0	55	13.0	41	5.0	43	33	290	45	29.85				FM-16		29.79
21	0153	7	FEW-02 6	5.00	HZ-7 IFU-05 IJZ-05	64	17.8	55	13.0	41	5.0	43	30	280	44	29.85			29.80	FM-15	0.00	29.79
21	0253	7	SCT-04 14	9.00		63	17.2	54	12.4	39	3.9	41	18	330	25	29.89			29.83	FM-15	0.00	29.83
21	0304	7	FEW-02 9 BKN-07 14	6.00	HZ-7 IFU-05 IJZ-05	63	17.2	54	12.4	39	3.9	41	17	320	25	29.89				FM-16		29.83
21	0320	7	SCT-04 12	7.00		63	17.2	54	12.4	38	3.3	40	17	310	25	29.88				FM-16		29.82
21	0353	7	CLR-00	9.00		62	16.7	54	12.0	39	3.9	43	24	280	32	29.88	0	-0.04	29.82	FM-15	0.00	29.82
21	0426	7	SCT-04 7	3.00	HZ-7 IFU-05 IJZ-05	61	16.1	53	11.5	38	3.9	44	23	280	32	29.90				FM-16		29.84
21	0430	5	BKN-07 6	7.00	HZ-7 IFU-05 IJZ-05	61	16.1	53	11.5	39	3.9	44	23	280	32	29.90				FM-16		29.84
21	0437	7	BKN-07 5	2.50	HZ-7 IFU-05 IJZ-05	61	16.1	53	11.5	39	3.9	44	21	280	29	29.90				FM-16		29.84
21	0441	7	SCT-04 5	3.00	HZ-7 IFU-05 IJZ-05	61	16.1	53	11.5	39	3.9	44	21	280	29	29.90				FM-16		29.84
21	0453	7	FEW-02 6	4.00	HZ-7 IFU-05 IJZ-05	61	16.1	53	11.5	39	3.9	44	20	270	29	29.91			29.84	FM-15	0.00	29.85
21	0553	7	CLR-00	10.00		63	17.2	54	12.5	40	4.4	43	13	290	23	29.94			29.88	FM-15	0.00	29.88
21	0653	7	CLR-00	10.00		66	18.9	57	13.9	40	4.4	39	18	280	25	29.95	1	-0.06	29.88	FM-15	0.00	29.89
21	0753	7	CLR-00	10.00		69	20.6	60	15.4	40	4.4	36	16	270	24	29.96			29.89	FM-15	0.00	29.90
21	0853	7	CLR-00	10.00		72	22.2	63	17.4	40	4.4	31	17	280	23	29.95			29.89	FM-15	0.00	29.89
21	0953	7	CLR-00	10.00		75	23.9	66	19.1	38	3.3	26	15	280	22	29.95	0	-0.00	29.89	FM-15	0.00	29.89
21	1053	7	CLR-00	10.00		78	25.6	71	21.4	36	2.2	22	17	290	29	29.93			29.87	FM-15	0.00	29.87
21	1153	7	CLR-00	10.00		81	27.2	75	24.1	34	1.1	18	15	290	23	29.92			29.85	FM-15	0.00	29.86
21	1253	7	CLR-00	10.00		82	27.8	78	25.4	32	0.0	16	22	290	28	29.90	8	+0.05	29.83	FM-15	0.00	29.84
21	1353	7	CLR-00	10.00		83	28.3	79	26.3	32	0.0	16	20	280	25	29.89			29.83	FM-15	0.00	29.83
21	1453	7	CLR-00	10.00		83	28.3	80	26.6	31	-0.6	15	28	280	33	29.87			29.81	FM-15	0.00	29.81
21	1553	7	CLR-00	10.00		80	27.2	75	24.1	34	1.1	18	20	270	31	29.88	5	+0.01	29.82	FM-15	0.00	29.82
21	1653	7	CLR-00	10.00		78	25.6	71	21.8	34	1.1	20	22	260	33	29.88			29.81	FM-15	0.00	29.82
21	1753	7	CLR-00	10.00		75	23.9	69	20.3	31	-0.6	20	21	270	29	29.89			29.83	FM-15	0.00	29.83
21	1853	7	CLR-00	10.00		71	21.7	64	17.9	29	-1.7	21	16	280	28	29.89	3	-0.02	29.84	FM-15	0.00	29.84
21	1953	7	CLR-00	10.00		69	20.6	61	16.0	33	0.6	26	17	280	28	29.92			29.85	FM-15	0.00	29.86
21	2053	7	CLR-00	10.00		68	20.0	60	15.6	31	-0.6	25	21	300	28	29.94			29.87	FM-15	0.00	29.86
21	2153	7	CLR-00	10.00		67	19.5	59	14.5	30	-1.1	26	14	280	30	29.91	1	-0.05	29.88	FM-15	0.00	29.81
21	2253	7	CLR-00	10.00		62	16.7	54	12.0	32	0.0	32	10	270	29	29.94			29.88	FM-15	0.00	29.88
21	2353	7	CLR-00	10.00		61	16.1	53	11.6	30	-1.1	31	8	320	29	29.95			29.88	FM-15	0.00	29.89

FIGURE B-46 EL CENTRO NAF (KNJK) QCLCD – MAY 20

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -42 ft. Lat: 32.8167° N Lon: -115.6833° W Station: EL CENTRO NAF, CA US WBAN:23199										Local Climatological Data Hourly Observations May 2016 Generated on 06/07/2017										National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801									
Date	Time (LST)	Station Type	Sky Conditions	Vis-ibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altitude Setting (inHg)							
						AU AW MW	(F) (C)	(F) (C)	(F) (C)	(F) (C)																			
20 0056	7	CLR:00	10.00										18	280	31	29.73		+0.00	29.74	FM-15	0.00	29.69							
20 0156	7	CLR:00	10.00										26	270		29.73			29.74	FM-15	0.00	29.69							
20 0256	7	CLR:00	10.00										16	240		29.72			29.73	FM-15	0.00	29.68							
20 0356	7	CLR:00	10.00										14	250		29.71	8	+0.02	29.72	FM-15	0.00	29.67							
20 0456	7	FEW-02 280	10.00			69	20.6	60	15.6	36	2.2	30	6	170		29.72			29.72	FM-15	0.00	29.68							
20 0556	7	FEW-02 280	10.00			74	23.3	65	18.3	39	3.9	28	6	190		29.74			29.75	FM-15	0.00	29.70							
20 0656	7	FEW-02 280	10.00			75	23.9	67	19.4	36	2.2	24	7	240		29.77	3	-0.05	29.77	FM-15	0.00	29.73							
20 0756	7	FEW-02 280	10.00			81	27.2	73	22.9	39	3.9	22	15	240		29.78			29.78	FM-15	0.00	29.74							
20 0856	7	FEW-02 280	10.00			82	27.8	75	23.6	39	3.9	22	13	220		29.77			29.78	FM-15	0.00	29.73							
20 0956	7	FEW-02 280	10.00			90	32.2	89	31.8	34	1.1	14	22	260		29.76	8	+0.01	29.76	FM-15	0.00	29.72							
20 1056	7	FEW-02 180 FEW-02 280	10.00			92	33.3	95	34.9	31	-0.6	11	20	260	28	29.75			29.76	FM-15	0.00	29.71							
20 1156	7	FEW-02 180 FEW-02 280	10.00			93	33.9	97	36.4	30	-1.1	10	25	260	32	29.74			29.74	FM-15	0.00	29.70							
20 1256	7	FEW-02 280	10.00			95	35.0	100	37.6	32	0.0	11	26	270	34	29.72	8	+0.04	29.73	FM-15	0.00	29.68							
20 1356	7	FEW-02 70 FEW-02 280	10.00			94	34.4	98	36.5	32	0.0	11	28	270	33	29.71			29.71	FM-15	0.00	29.67							
20 1456	7	FEW-02 70 FEW-02 280	10.00			93	33.9	94	34.6	34	1.1	12	24	280	31	29.69			29.69	FM-15	0.00	29.65							
20 1556	7	FEW-02 70 FEW-02 280	5.00	DU:5 JDU:07		91	32.8	92	33.5	32	0.0	12	30	270	41	29.69	5	+0.03	29.70	FM-15	0.00	29.65							
20 1656	7	FEW-02 280	4.00	HZ:7 DU:5 JFU:05 JHZ:05 DU:07		86	30.0	83	28.5	33	0.6	15	32	280	43	29.69			29.69	FM-15	0.00	29.65							
20 1756	7	CLR:00	10.00	-RA:02 [RA:61]		82	27.8	75	24.1	37	2.8	20	31	280	40	29.69			29.70	FM-15	T	29.65							
20 1854	6	FEW-02 6	4.00	-RA:02 [RA:61]		75	24.0	65	18.5	43	6.0	31	33	280	39	29.72				FM-16		29.68							
20 1856	7	FEW-02 6	4.00	-RA:02 [RA:61]		76	24.4	67	19.2	42	5.6	30	34	280	41	29.72	1	-0.04	29.73	FM-15	T	29.68							
20 1945	7	BKN:07 7	2.50	-RA:02 [RA:61]		72	22.2	62	16.8	44	6.7	37	33	280	46	29.75				FM-16	T	29.71							
20 1954	6	BKN:07 6	1.75	-RA:02 [RA:61]		72	22.0	62	16.8	45	7.0	38	34	280	45	29.76				FM-16	T	29.72							
20 1956	7	OVC:08 6	1.75	-RA:02 [RA:61]		71	21.7	61	16.3	44	6.7	38	33	290	45	29.76				FM-15	T	29.72							
20 2032	7	VV:09 4	0.75	-RA:02 [RA:61]		69	20.6	60	15.4	44	6.7	41	37	280	47	29.78				FM-16	T	29.74							
20 2054	6	VV:09 4	1.00	-RA:02 [RA:61]		68	20.0	59	14.9	45	7.0	43	38	280	46	29.79				FM-16	T	29.75							
20 2056	7	VV:09 4	1.00	-RA:02 [RA:61]		68	20.0	59	14.9	44	6.7	42	43	270	49	29.79				FM-15	T	29.75							
20 2106	7	VV:09 4	0.75	-RA:02 [RA:61]		68	20.0	59	14.9	44	6.7	42	40	270	51	29.80				FM-16	T	29.76							
20 2136	7	VV:09 5	1.00	-RA:02 [RA:61]		67	19.4	58	14.4	44	6.7	44	38	280	47	29.81				FM-16	T	29.77							
20 2153	7	OVC:08 4	1.00	-RA:02 [RA:61]		66	19.0	57	14.0	45	7.0	46	36	280	45	29.82				FM-16	T	29.78							
20 2156	7	OVC:08 4	1.25	-RA:02 [RA:61]		67	19.4	58	14.4	44	6.7	44	37	280	44	29.82	1	-0.06	29.83	FM-15	T	29.78							
20 2256	7	OVC:08 4	0.75	-RA:02 [RA:61]		66	18.9	57	13.9	43	6.1	43	41	270	49	29.84				FM-15	T	29.80							
20 2334	7	OVC:08 3	1.25	-RA:02 [RA:61]		66	18.9	57	13.9	42	5.6	42	39	270	47	29.84				FM-16	T	29.80							
20 2339	7	BKN:07 5 OVC:08 8	2.00	-RA:02 [RA:61]		65	18.3	56	13.4	42	5.6	43	34	280	47	29.84				FM-16	T	29.80							
20 2348	7	SCT:04 4 BKN:07 10	4.00	-RA:02 [RA:61]		65	18.3	56	13.4	42	5.6	43	26	290	41	29.84				FM-16	T	29.80							
20 2354	6	FEW:02 4 OVC:08 10	2.50	-RA:02 [RA:61]		64	18.0	55	13.1	43	6.0	46	31	290	40	29.84				FM-16	T	29.80							
20 2356	7	FEW:02 4 OVC:08 10	1.75	-RA:02 [RA:61]		64	17.8	55	13.0	42	5.6	45	29	290	38	29.84				29.85	FM-15	T	29.80						

FIGURE B-47 EL CENTRO NAF (KNJK) QCLCD – MAY 21

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Elev: -42 ft. Lat: 32.8167° N Lon: -115.6833° W Station: EL CENTRO NAF, CA US WBAN:23199					Local Climatological Data Hourly Observations May 2016 Generated on 06/07/2017													National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801					
D a t e	Time (LST)	Station Type	Sky Conditions	Visi- bility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3- Hr Change (inHg)	Sea Level Press (inHg)	Report Type	Precip Total (in)	Alt- meter Setting (inHg)	
AU AW MW																							
21	0003	7	OVC:08 8	1.50	-RA:02 [RA:61]	64	17.8	55	13.0	42	5.6	45	37	290	45	29.84				FM-16	T	29.80	
21	0023	7	FEW:02 7 OVC:08 11	2.00	-RA:02 [RA:61]	64	17.8	55	13.0	42	5.6	45	31	300	43	29.83				FM-16	T	29.79	
21	0034	7	OVC:08 11	3.00	-RA:02 [RA:61]	63	17.2	55	12.6	42	5.6	47	32	290	38	29.84				FM-16	T	29.80	
21	0046	7	OVC:08 9	2.50	-RA:02 [RA:61]	64	17.8	55	13.0	42	5.6	45	30	290	44	29.84				FM-16	T	29.80	
21	0054	6	OVC:08 9	3.00	-RA:02 [RA:61]	63	17.0	55	12.5	41	5.0	45	31	280	41	29.85				FM-16	T	29.81	
21	0056	7	OVC:08 9	3.00	-RA:02 [RA:61]	63	17.2	55	12.5	41	5.0	45	31	280	41	29.85	1	-0.02	29.85	FM-15	T	29.81	
21	0105	7	OVC:08 9	2.50	-RA:02 [RA:61]	63	17.2	55	12.5	41	5.0	45	31	280	43	29.84				FM-16	T	29.80	
21	0114	7	BKN:07 8	4.00	-RA:02 [RA:61]	63	17.2	55	12.5	41	5.0	45	39	270	51	29.84				FM-16	T	29.80	
21	0127	6				63	17.2	55	12.5	41	5.0	45				29.84				FM-16	T	29.80	
21	0156	6				63	17.2	55	12.5	41	5.0	45				29.85				FM-15	T	29.81	
21	0254	6	FEW:02 6	6.00	-RA:02 [RA:61]	63	17.0	54	12.4	39	4.0	42	38	270	46	29.88				FM-16	T	29.84	
21	0256	7	SCT:04 6	4.00	-RA:02 [RA:61]	62	16.7	54	12.0	39	3.9	43	39	270	46	29.88				FM-15	T	29.84	
21	0307	7	BKN:07 6	3.00	-RA:02 [RA:61]	62	16.7	54	12.0	39	3.9	43	28	290	43	29.89				FM-16	T	29.85	
21	0322	7	SCT:04 6	8.00		62	16.7	53	11.9	38	3.3	41	26	290	32	29.89				FM-16	T	29.85	
21	0356	7	BKN:07 9	4.00	HZ:7 JFU:05 JHZ:05	61	16.1	53	11.5	38	3.3	43	22	300	34	29.91	3	-0.06	29.91	FM-15	T	29.87	
21	0422	7	OVC:08 7	2.00	-RA:02 [RA:61]	61	16.1	53	11.4	37	2.8	41	29	280	37	29.92				FM-16	T	29.88	
21	0429	7	OVC:08 7	1.75	-RA:02 [RA:61]	61	16.1	53	11.4	37	2.8	41	30	280		29.92				FM-16	T	29.88	
21	0449	7	BKN:07 5	3.00	HZ:7 JFU:05 JHZ:05	61	16.1	53	11.5	38	3.3	43	23	290	32	29.92				FM-16	T	29.88	
21	0456	7	BKN:07 5	6.00	HZ:7 JFU:05 JHZ:05	61	16.1	53	11.5	38	3.3	43	23	280		29.92				FM-15	T	29.88	
21	0504	7	FEW:02 60 FEW:02 280	8.00		61	16.1	53	11.5	38	3.3	43	23	280	30	29.92				FM-16		29.88	
21	0556	7	FEW:02 60 FEW:02 280	10.00		63	17.2	54	12.4	38	3.3	40	23	290		29.95				FM-15	T	29.91	
21	0656	7	FEW:02 60 FEW:02 280	10.00		66	18.9	57	13.9	38	3.3	36	22	270		29.95	1	-0.04	29.96	FM-15	0.00	29.91	
21	0756	7	FEW:02 60 FEW:02 280	10.00		70	21.1	61	16.2	37	2.8	30	21	280		29.96				FM-15	0.00	29.92	
21	0856	7	FEW:02 60	10.00		73	22.8	65	18.1	36	2.2	26	21	300		29.95				FM-15	0.00	29.91	
21	0956	7	FEW:02 60	10.00		76	24.4	69	20.4	34	1.1	22	21	280	28	29.95	8	+0.00	29.95	FM-15	0.00	29.91	
21	1056	7	FEW:02 60	10.00		79	26.1	73	23.1	32	0.0	18	20	290	26	29.93				FM-15	0.00	29.89	
21	1156	7	FEW:02 60	10.00		82	27.8	79	26.4	29	-1.7	14	20	270	28	29.92				FM-15	0.00	29.88	
21	1256	7	FEW:02 60 FEW:02 250	10.00		84	28.9	82	27.8	30	-1.1	14	28	280		29.90	8	+0.05	29.90	FM-15	0.00	29.86	
21	1356	7	FEW:02 60 FEW:02 250	10.00		84	28.9	84	28.8	27	-2.8	12	28	280	34	29.90				FM-15	0.00	29.86	
21	1456	7	CLR:00	10.00		83	28.3	82	27.9	27	-2.8	13	30	260		29.89				FM-15	0.00	29.85	
21	1556	7	CLR:00	10.00		81	27.2	78	25.5	29	-1.7	15	29	270		29.88	8	+0.01	29.89	FM-15	0.00	29.84	
21	1656	7	CLR:00	10.00		79	26.1	74	23.6	30	-1.1	17	30	270	39	29.89				FM-15	0.00	29.85	
21	1756	7	CLR:00	10.00		75	23.9	70	21.2	27	-2.8	17	24	270	34	29.89				FM-15	0.00	29.85	
21	1856	7	CLR:00	10.00		71	21.7	65	18.5	26	-3.3	19	26	270	33	29.90	3	-0.01	29.91	FM-15	0.00	29.86	
21	1956	7	CLR:00	10.00		68	20.0	60	15.5	32	0.0	26	26	280		29.92				FM-15	0.00	29.88	
21	2056	7	CLR:00	10.00		67	19.4	60	15.5	27	-2.8	22	24	280		29.94				FM-15	0.00	29.90	
21	2156	7	CLR:00	10.00		65	18.3	60	14.0	29	-1.7	26	15	270		29.95				FM-15	0.00	29.93	
21	2256	7	CLR:00	10.00		61	16.1	53	11.7	30	-1.7	30	11	280		29.95	1	-0.05	29.96	FM-15	0.00	29.91	
21	2356	7	CLR:00	10.00		61	16.1	53	11.6	29	-1.1	31	14	280		29.94				FM-15	0.00	29.91	